

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

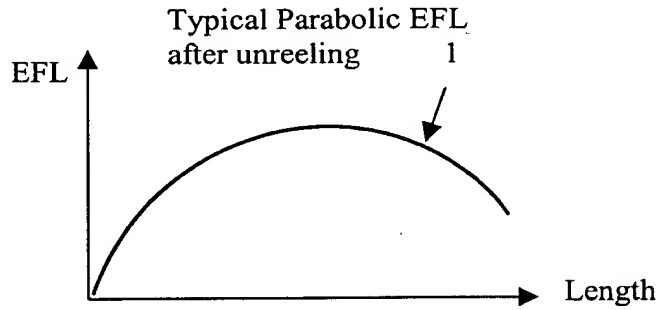


FIGURE 1
Prior Art

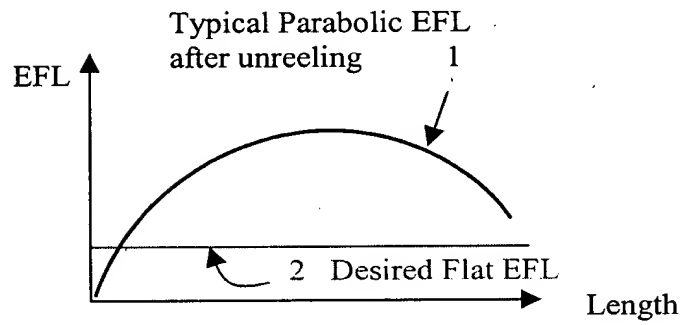


FIGURE 2

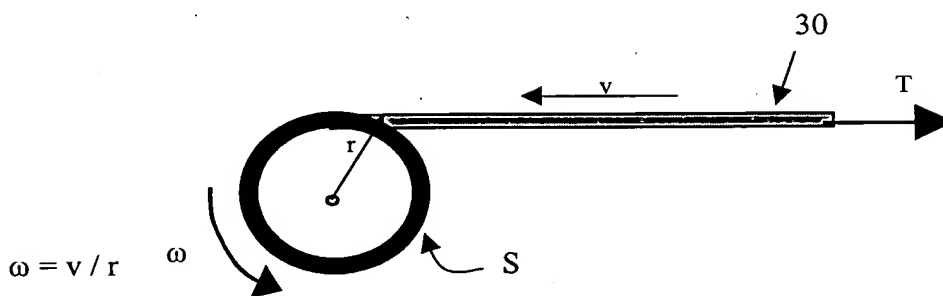


FIGURE 3

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Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

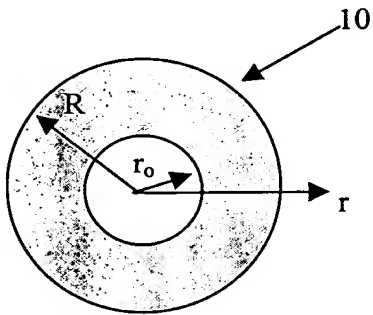


FIGURE 4A

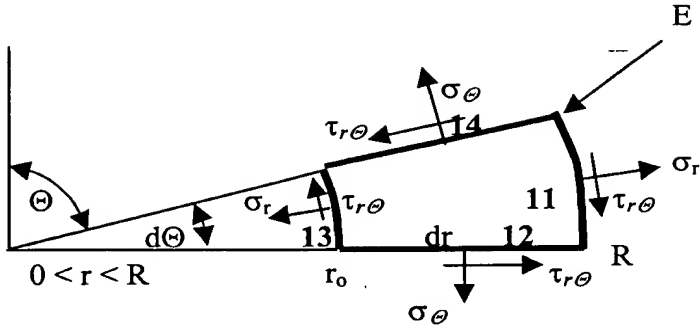


FIGURE 4B

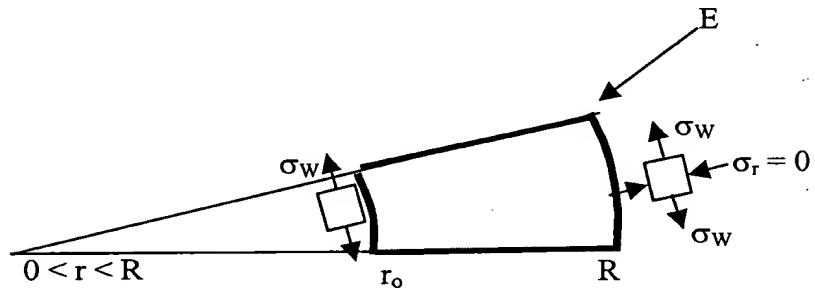


FIGURE 4C

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Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

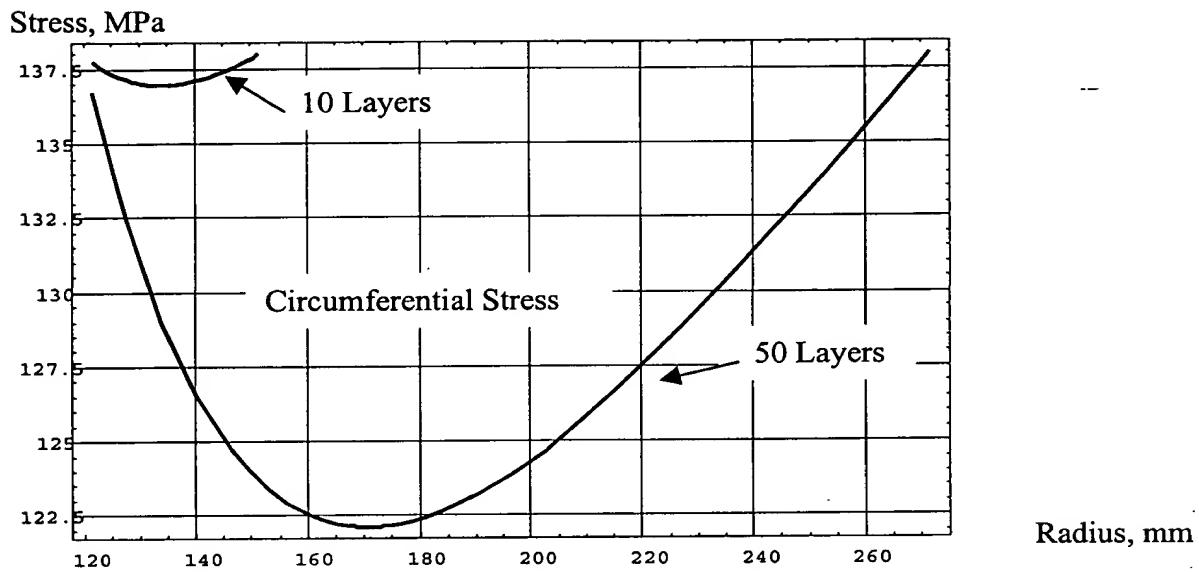
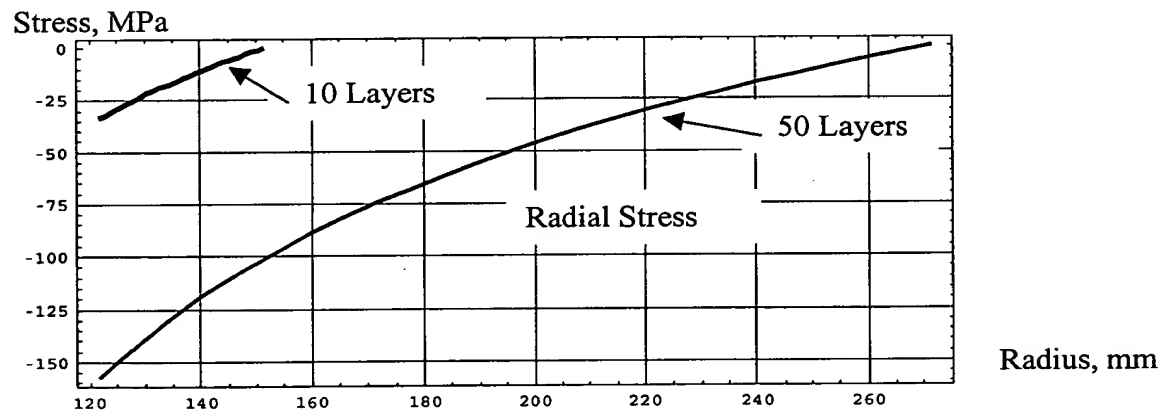


FIGURE 5A-1



Stress, Mpa

FIGURE 5A-2

U.S. Patent Application Figures

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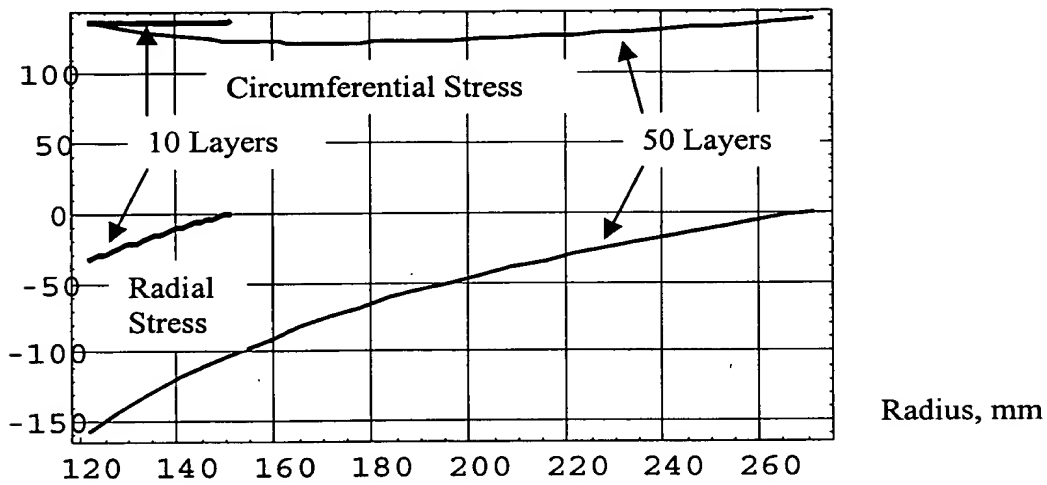


FIGURE 5A-3

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

Stress, MPa

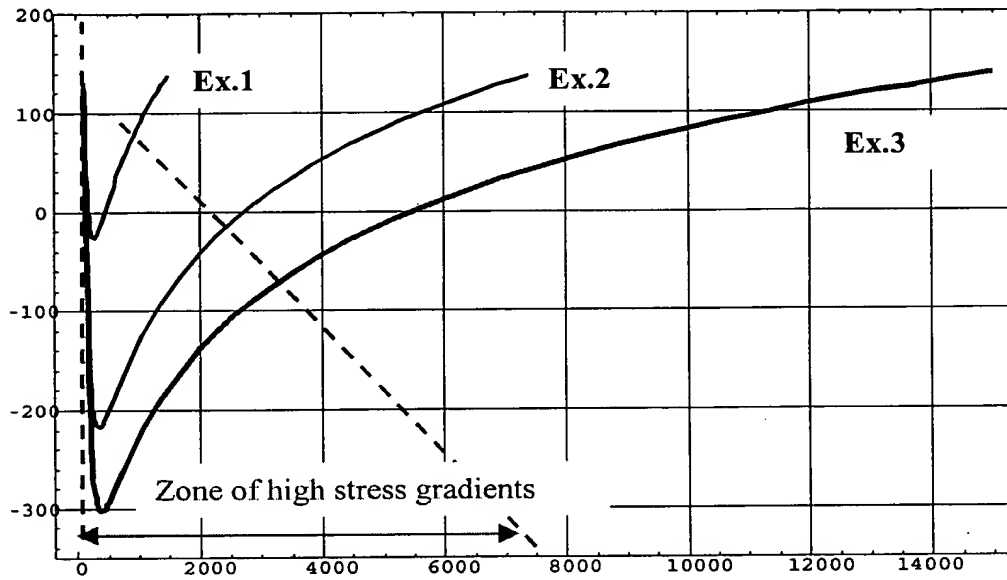


FIGURE 5B-1

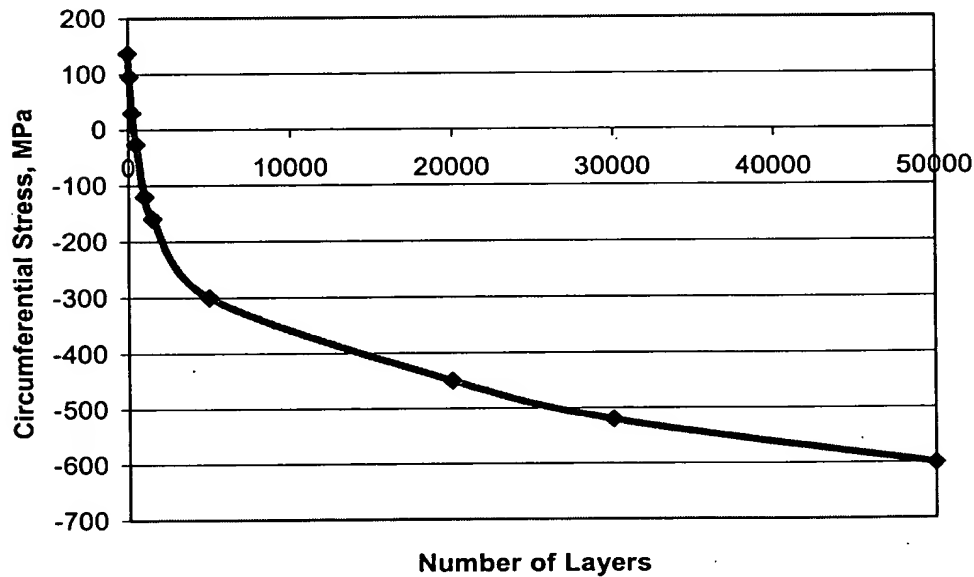


FIGURE 5B-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

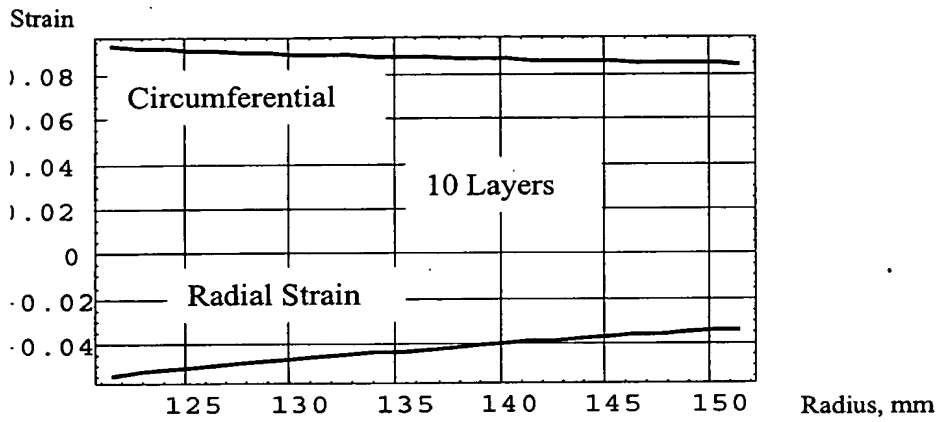


FIGURE 6-1

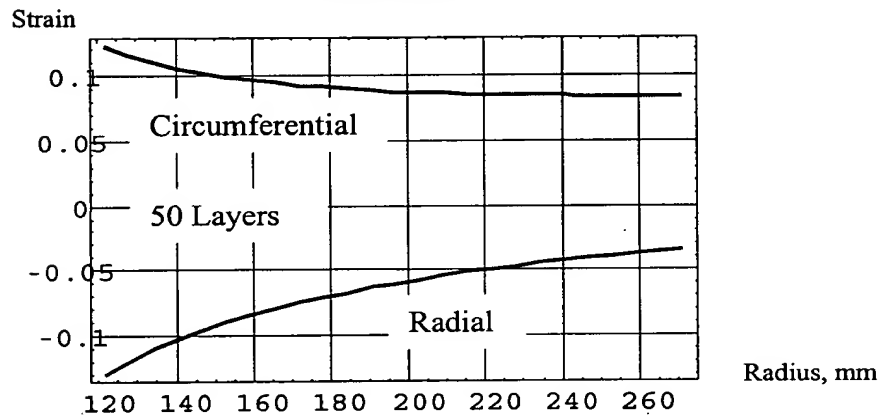


FIGURE 6-2

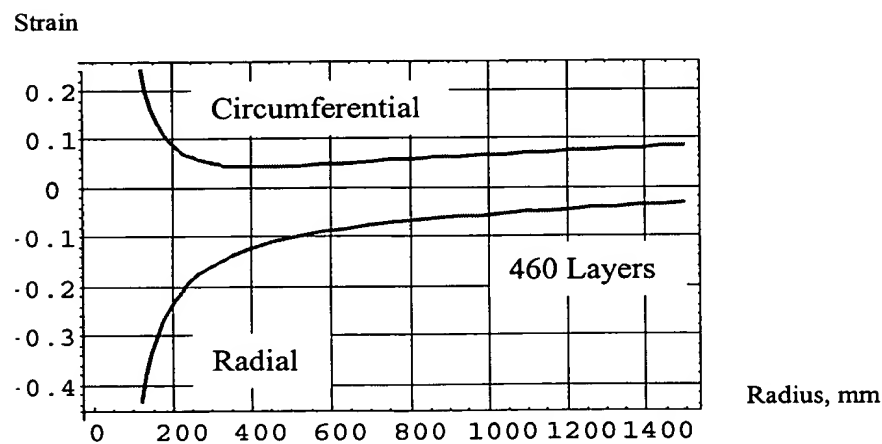


FIGURE 6-3

U.S. Patent Application Figures

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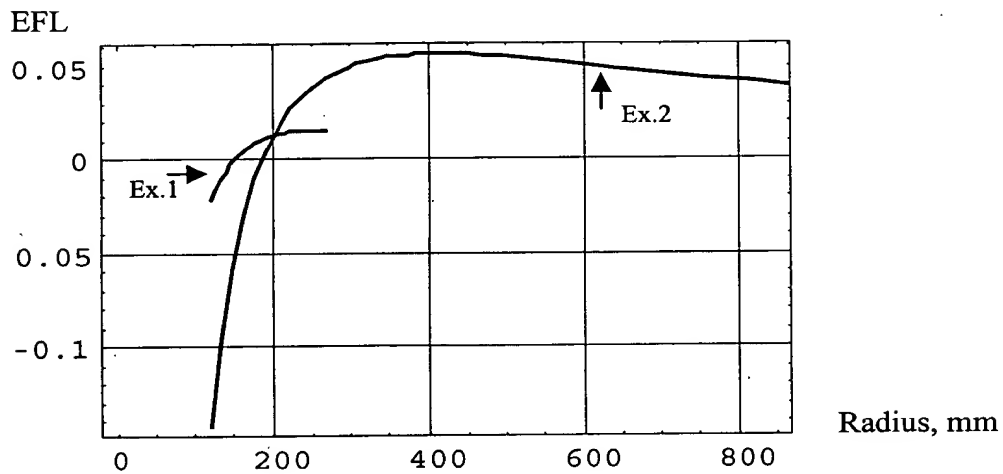


FIGURE 7-1

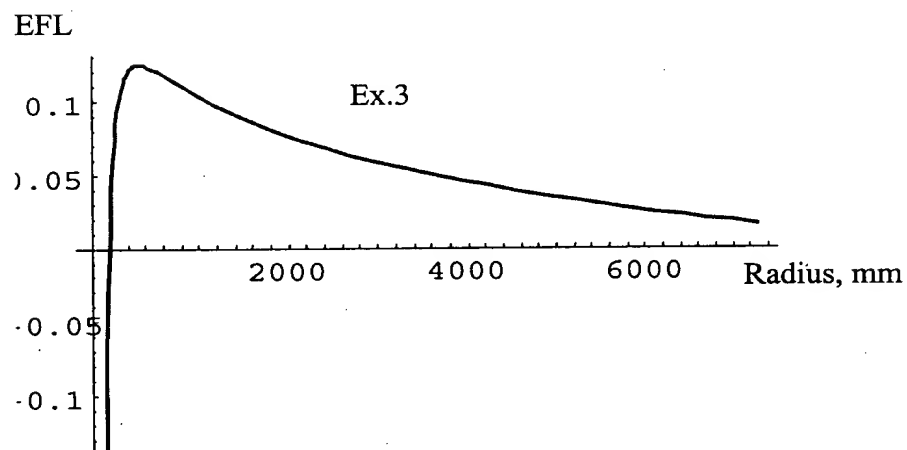
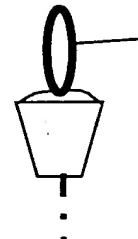
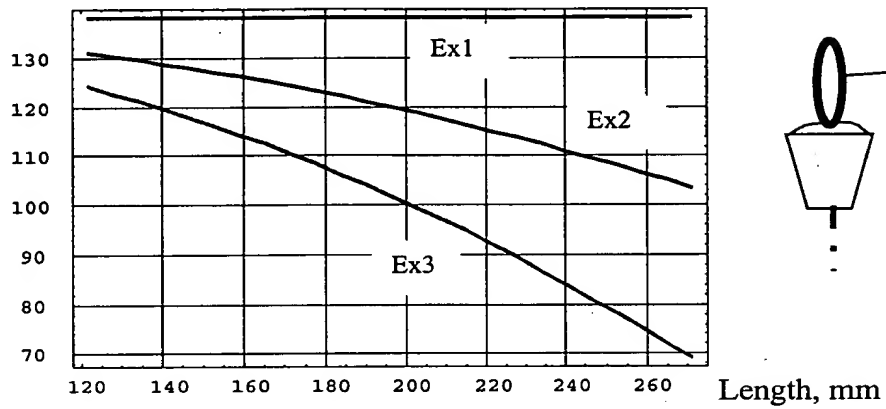


FIGURE 7-2

U.S. Patent Application Figures

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Take-up Tension, MPa



Monotonically decaying take-up tension can be achieved using a bucket of water with a valve.

FIGURE 8

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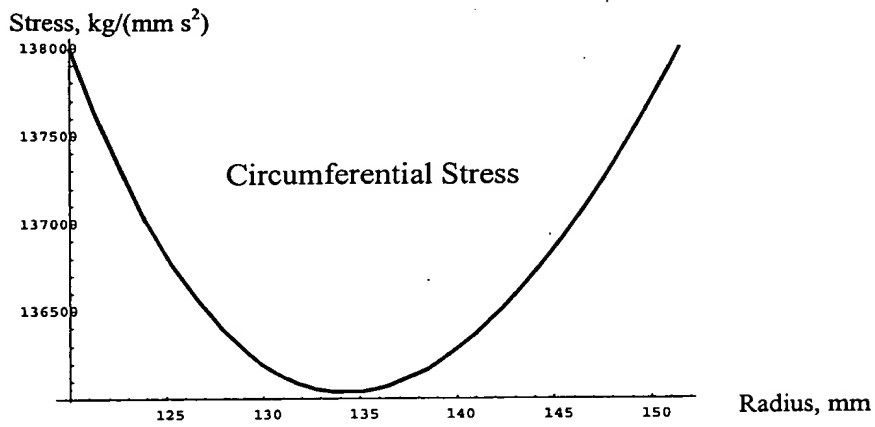


FIGURE 9A-1

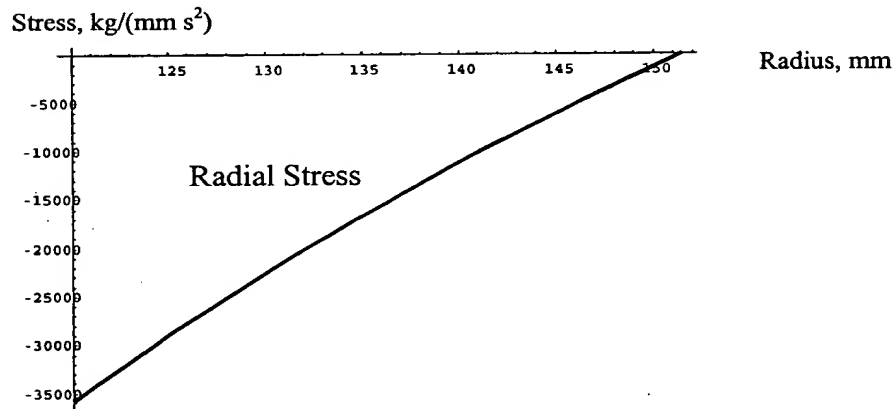


FIGURE 9A-2

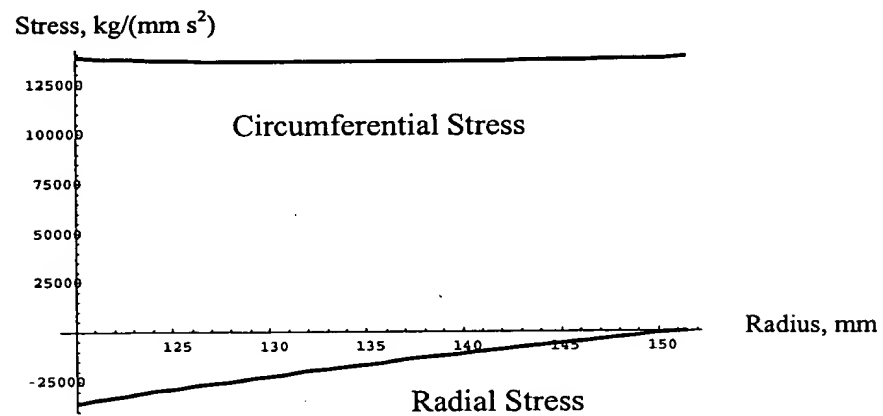


FIGURE 9A-3

U.S. Patent Application Figures

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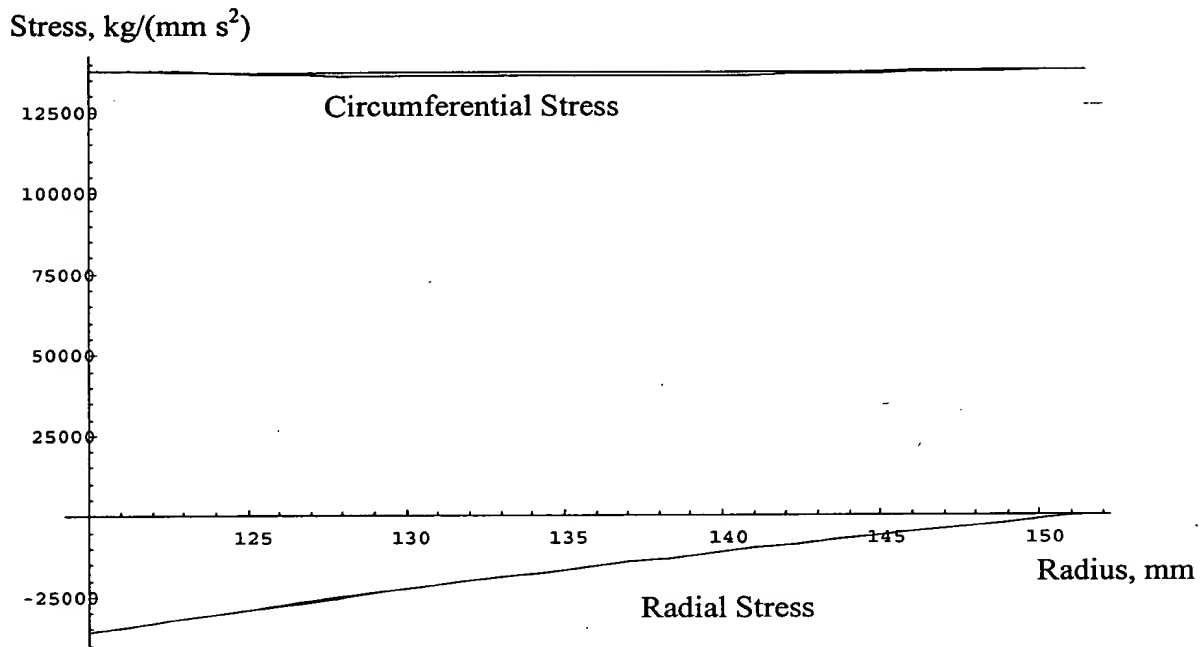


FIGURE 9B-1

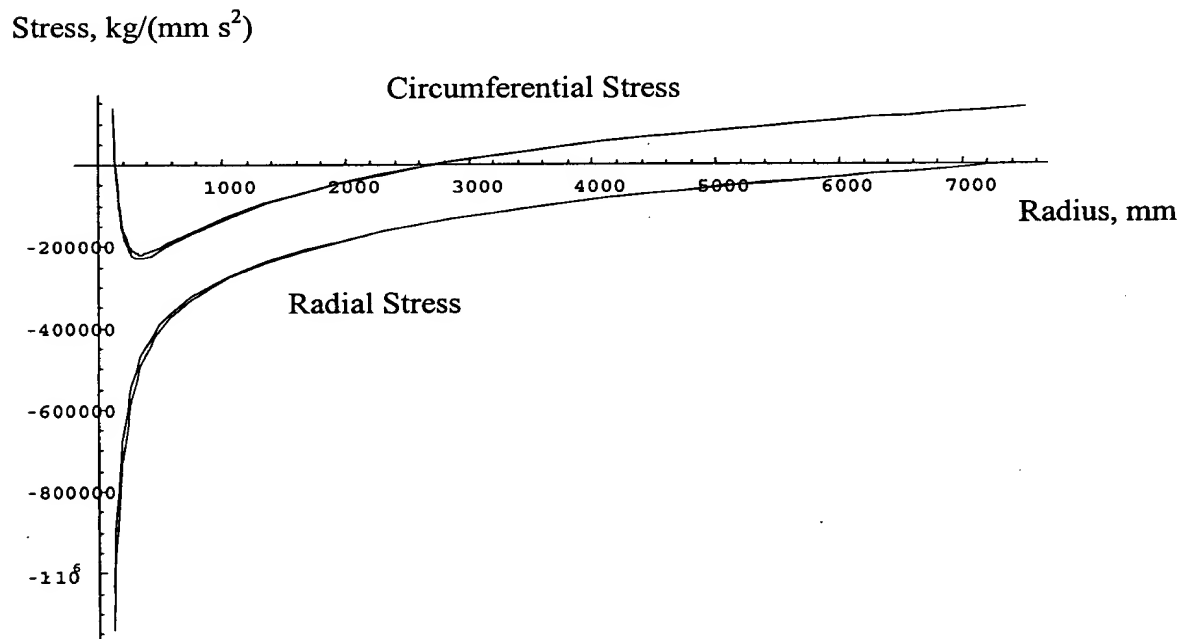


FIGURE 9B-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

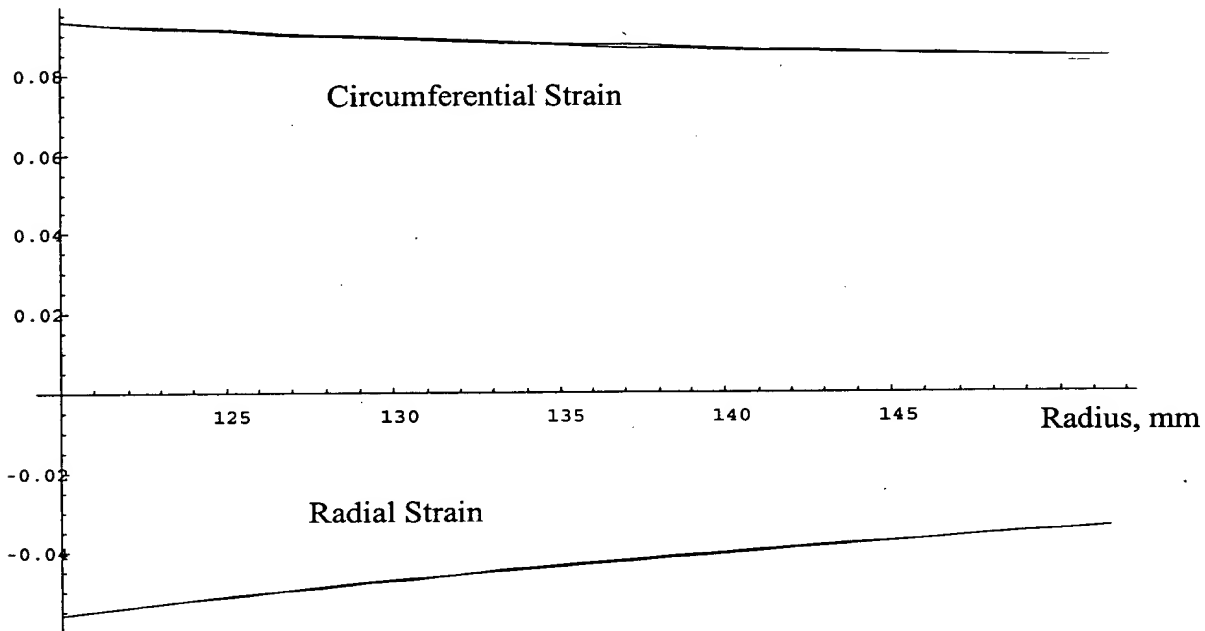


FIGURE 9C-1

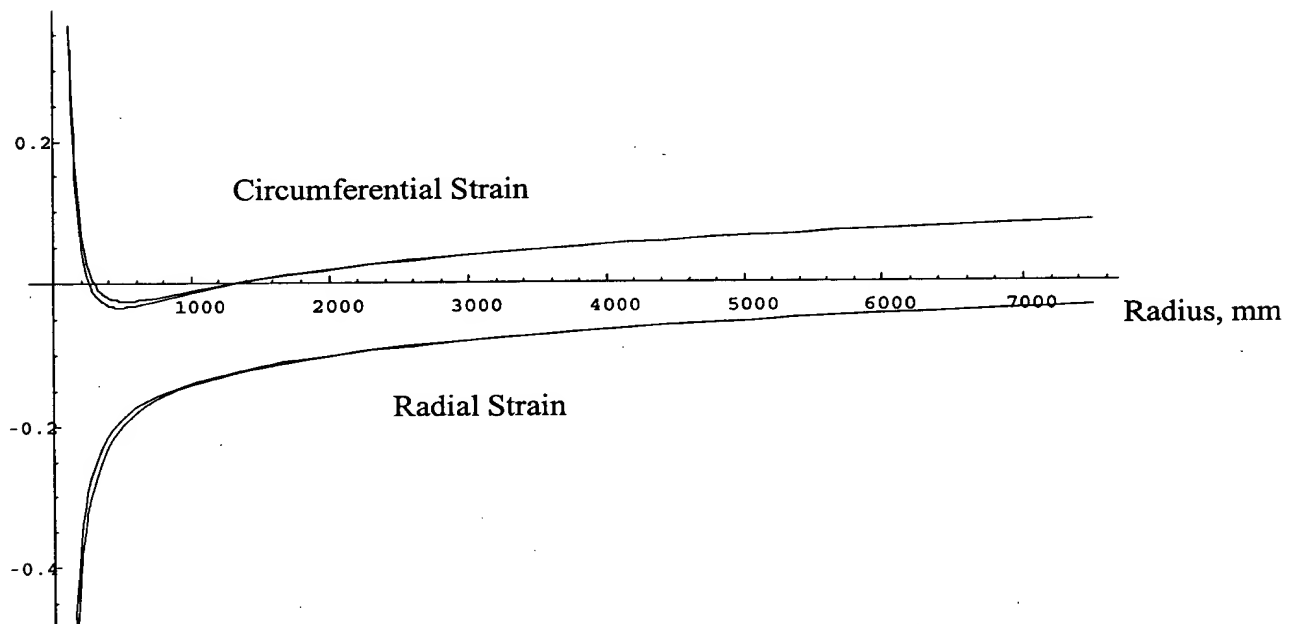


FIGURE 9C-2

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

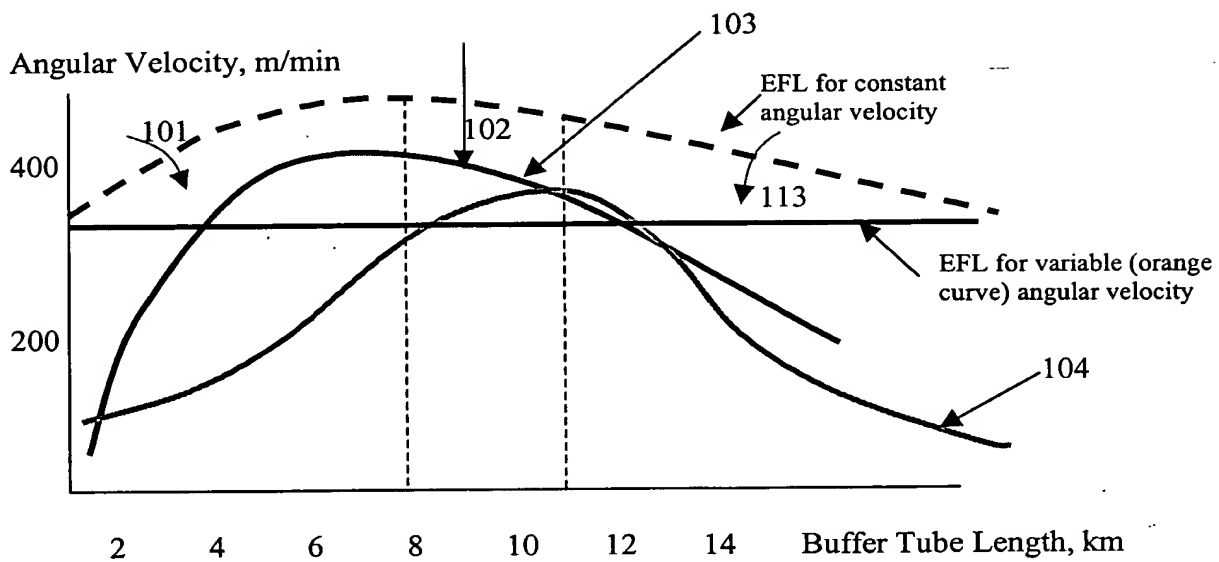


FIGURE 10

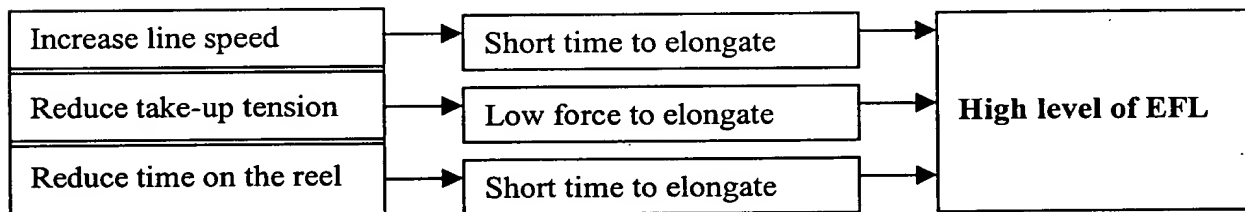


FIGURE 11

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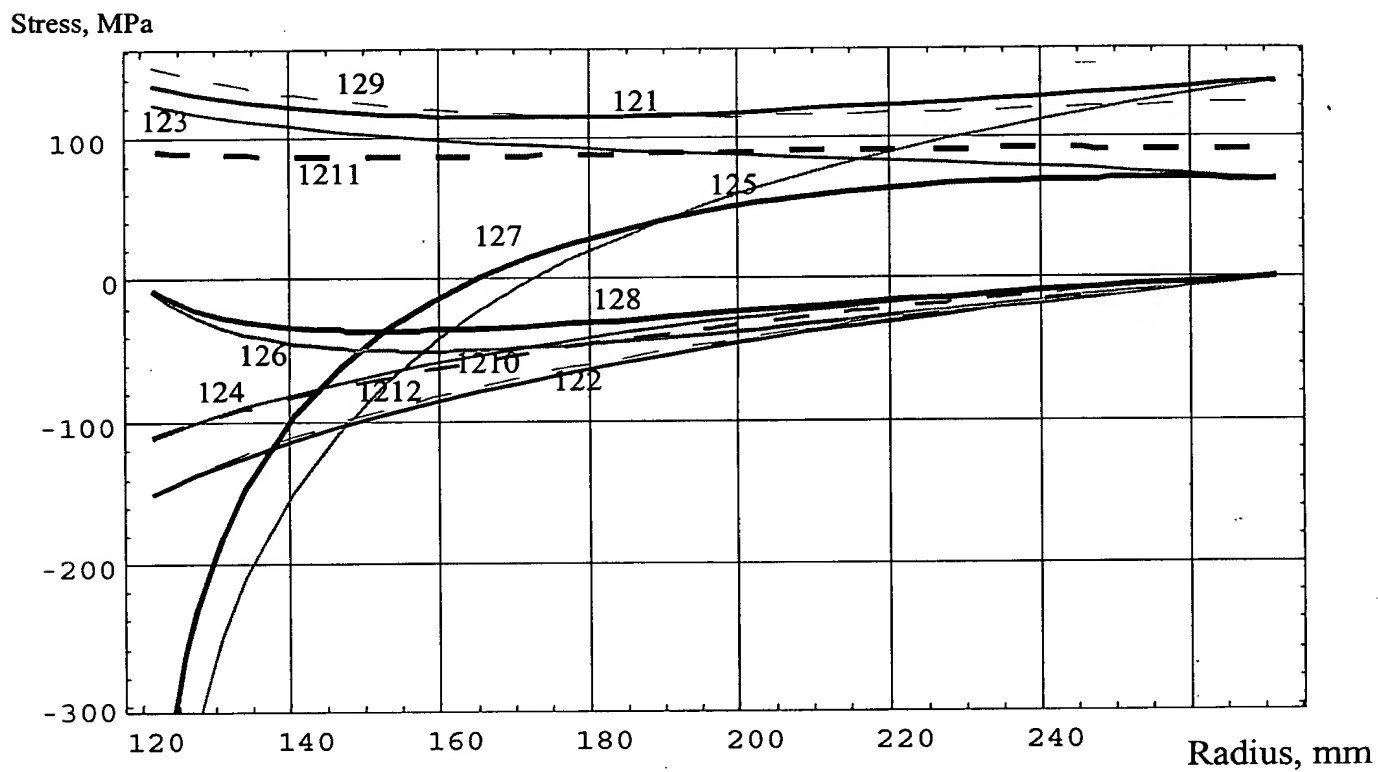


FIGURE 12

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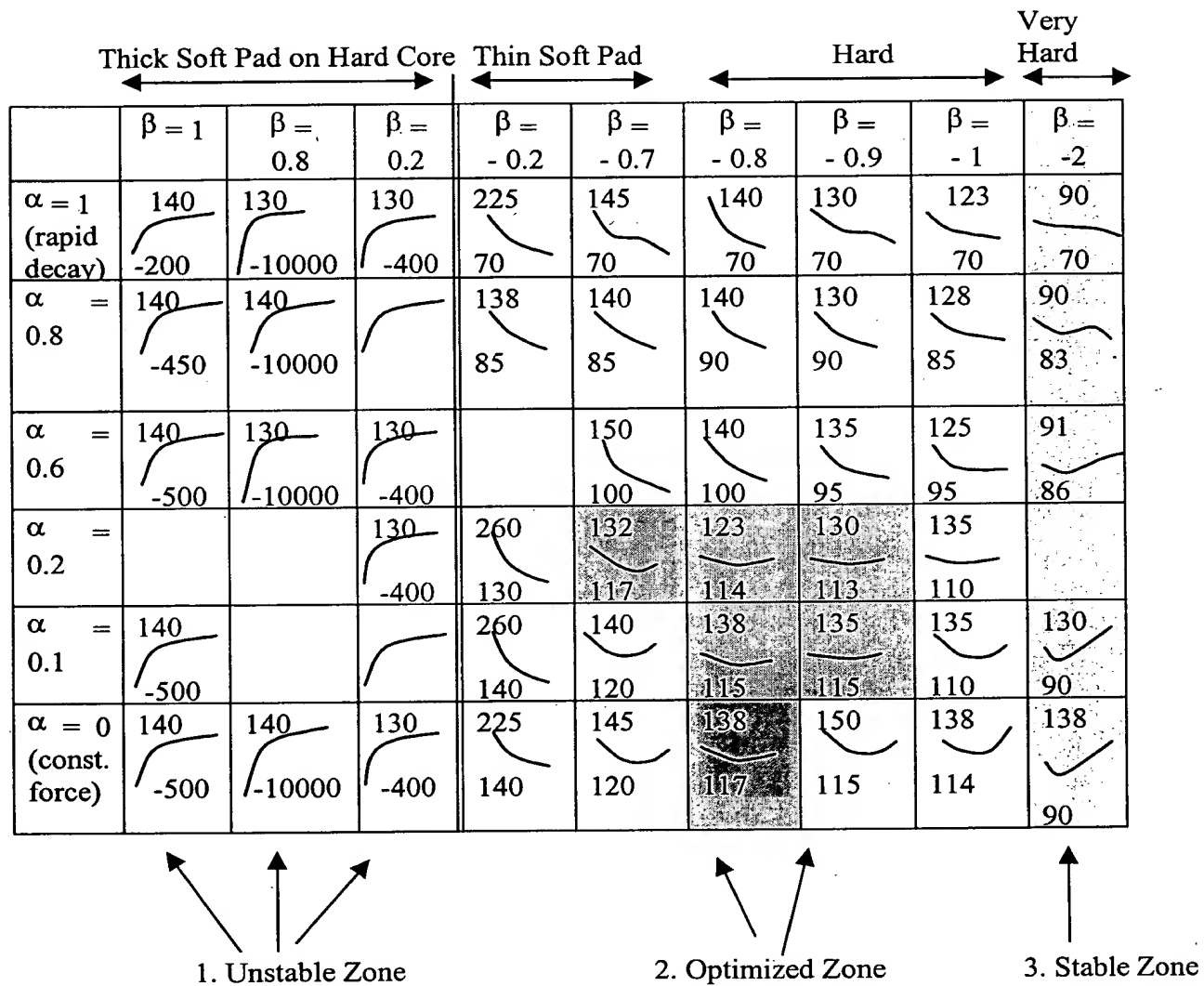


FIGURE 13

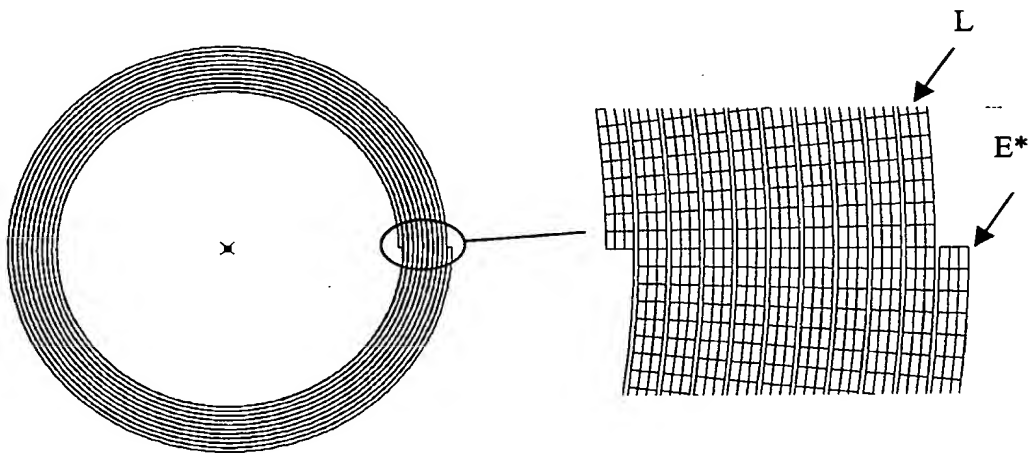


FIGURE 14A

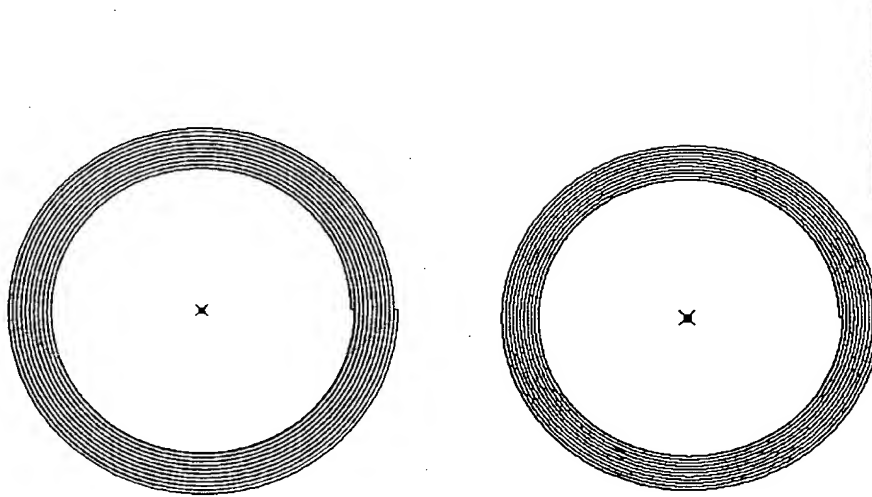


FIGURE 14B

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Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

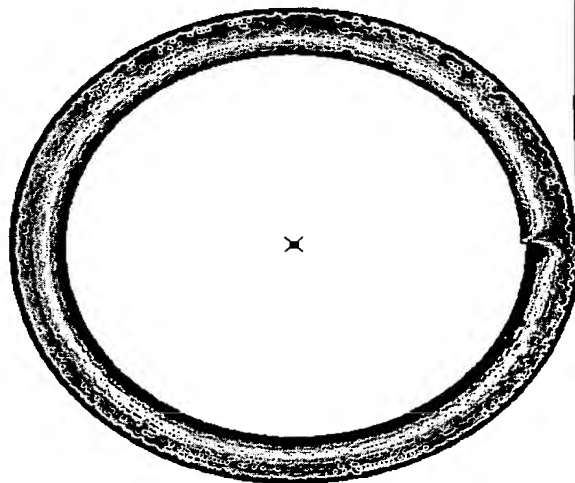
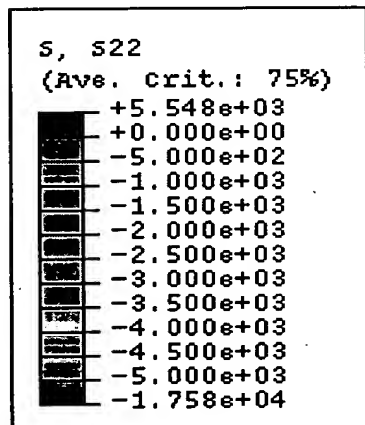
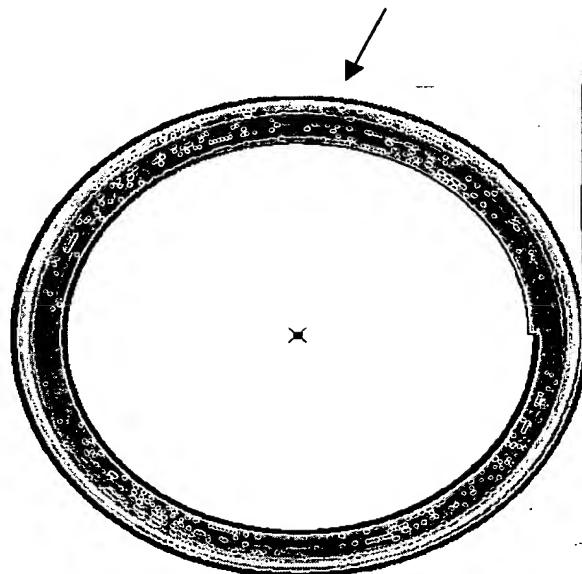
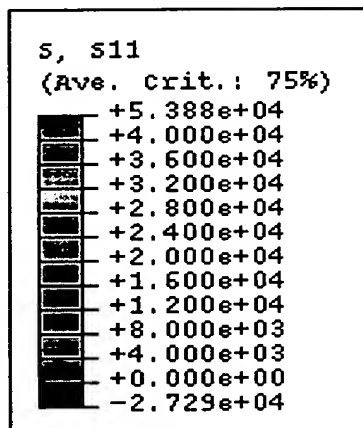


FIGURE 14C

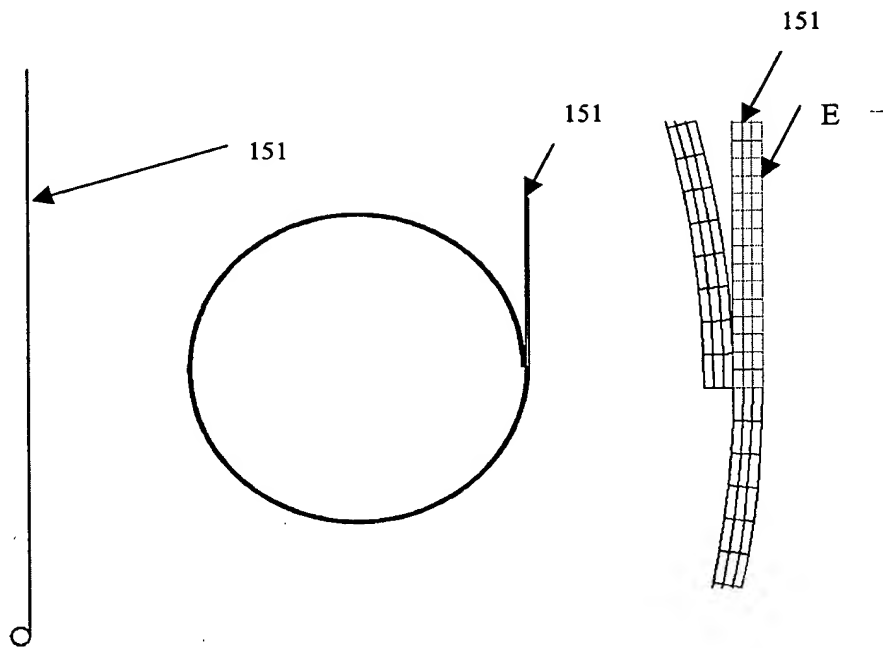


FIGURE 15A

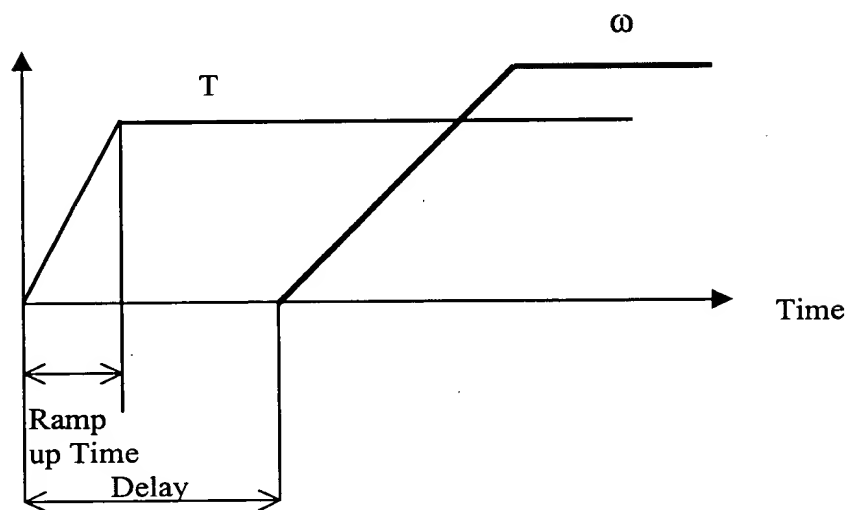


FIGURE 15B

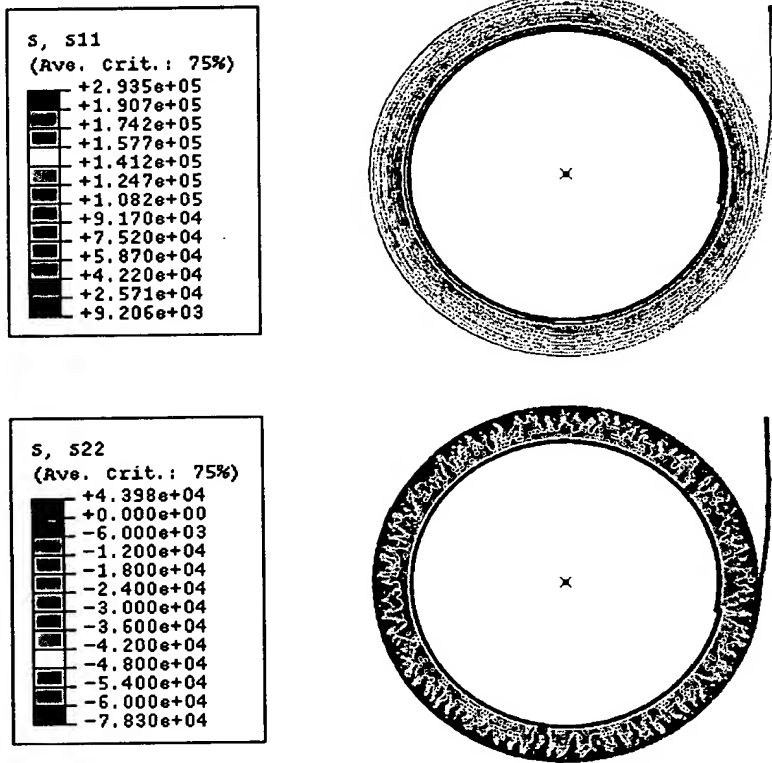


FIGURE 15C

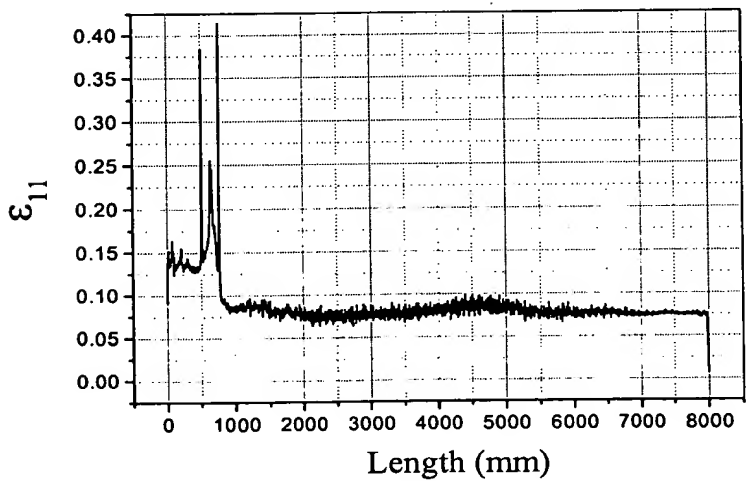


FIGURE 15D

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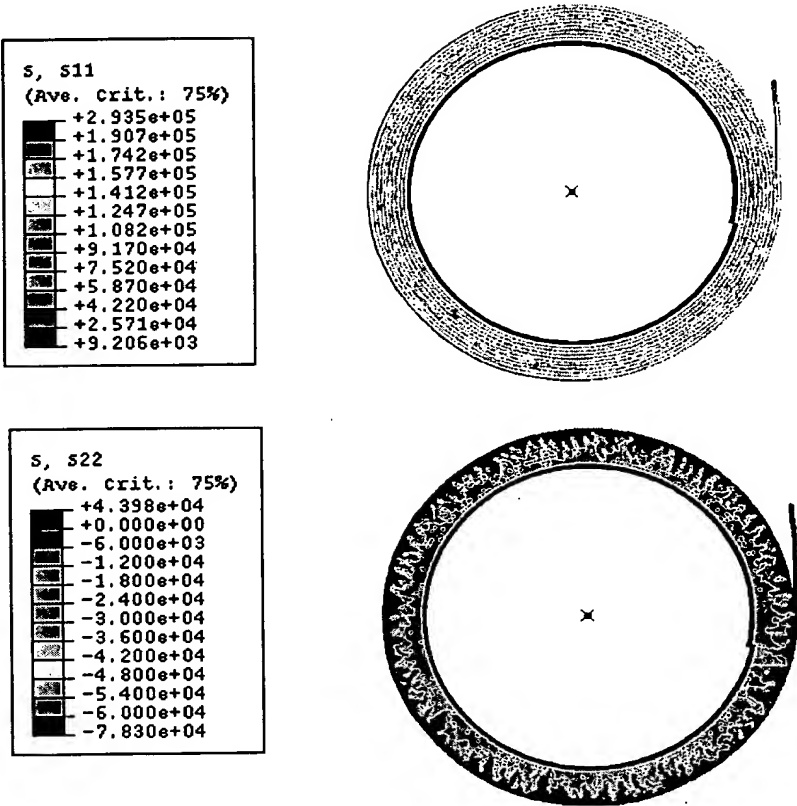


FIGURE 16

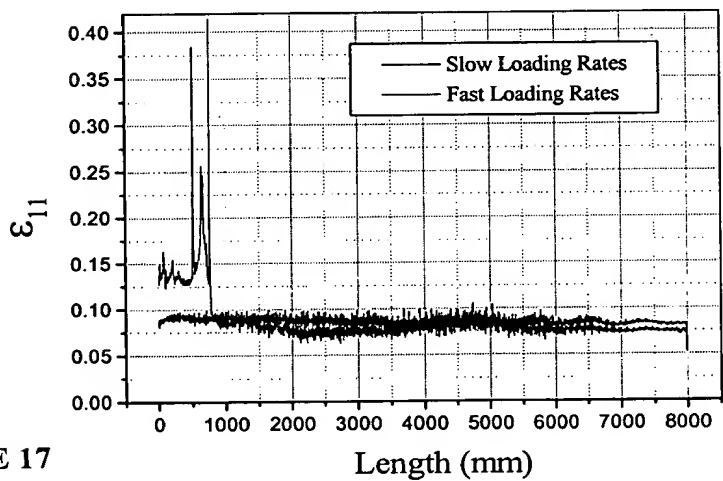


FIGURE 17

U.S. Patent Application Figures

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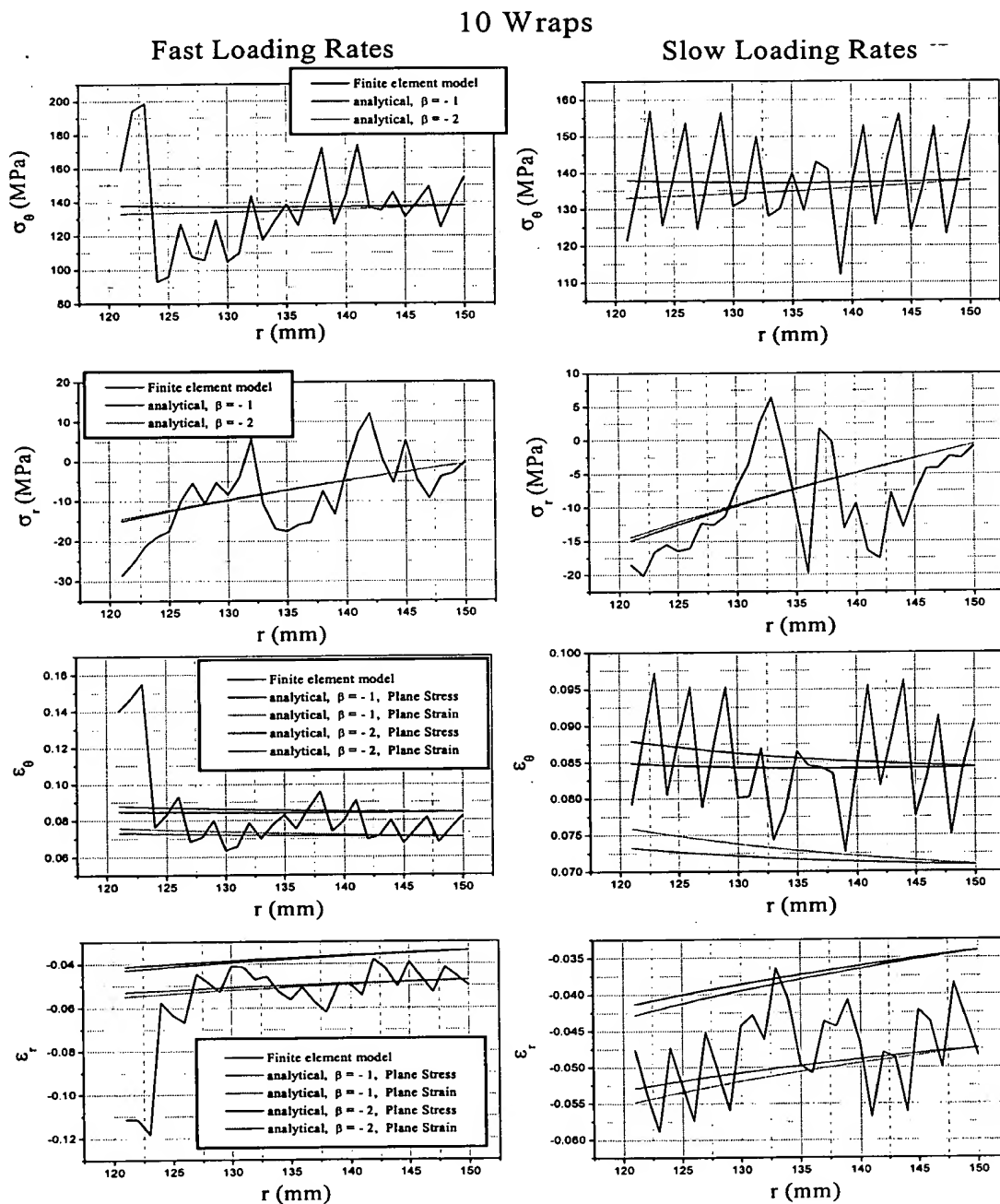


FIGURE 18

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

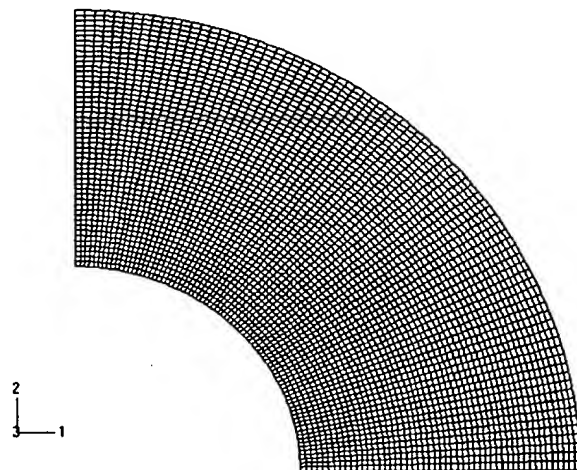


FIGURE 19A

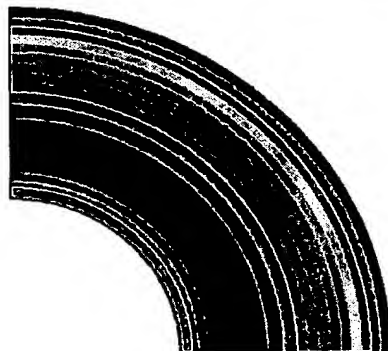
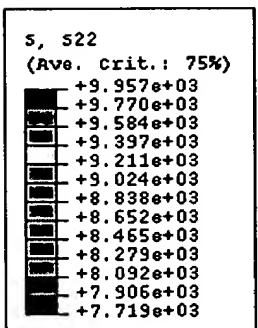
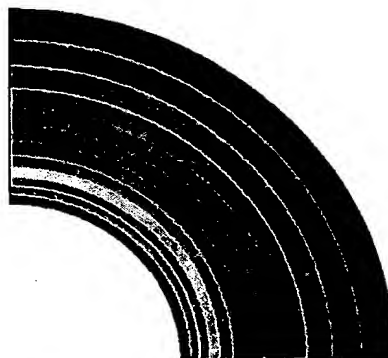
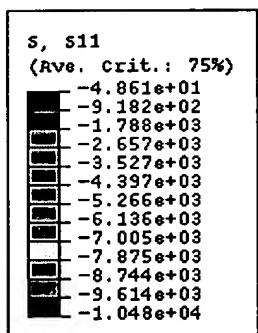


FIGURE 19B

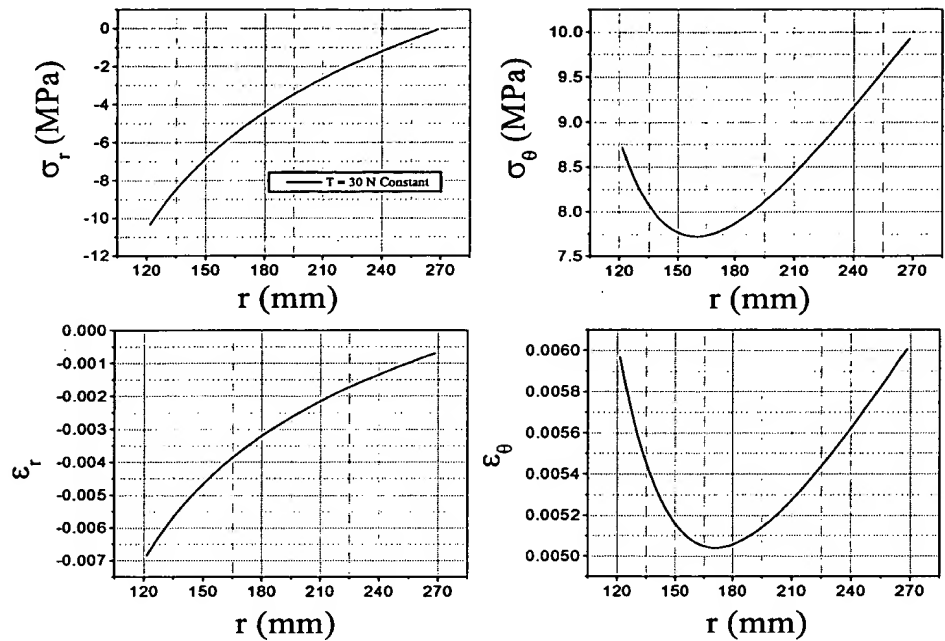


FIGURE 19C

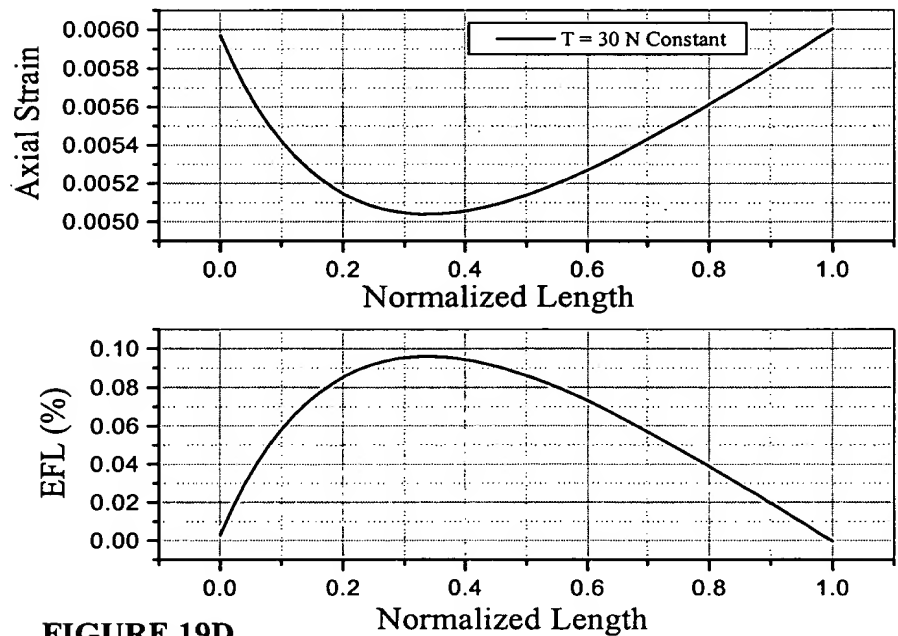


FIGURE 19D

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

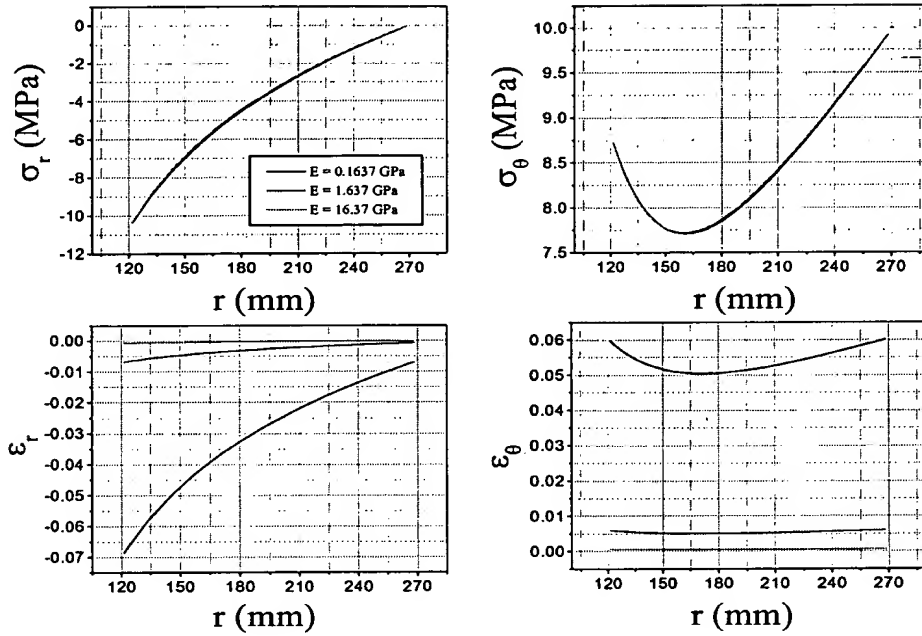


FIGURE 20

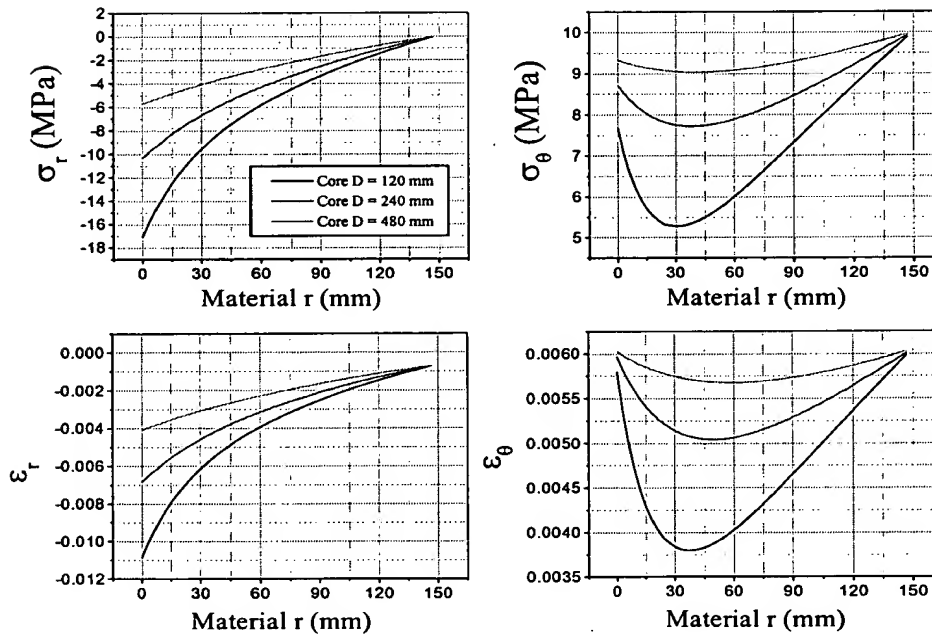


FIGURE 21

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

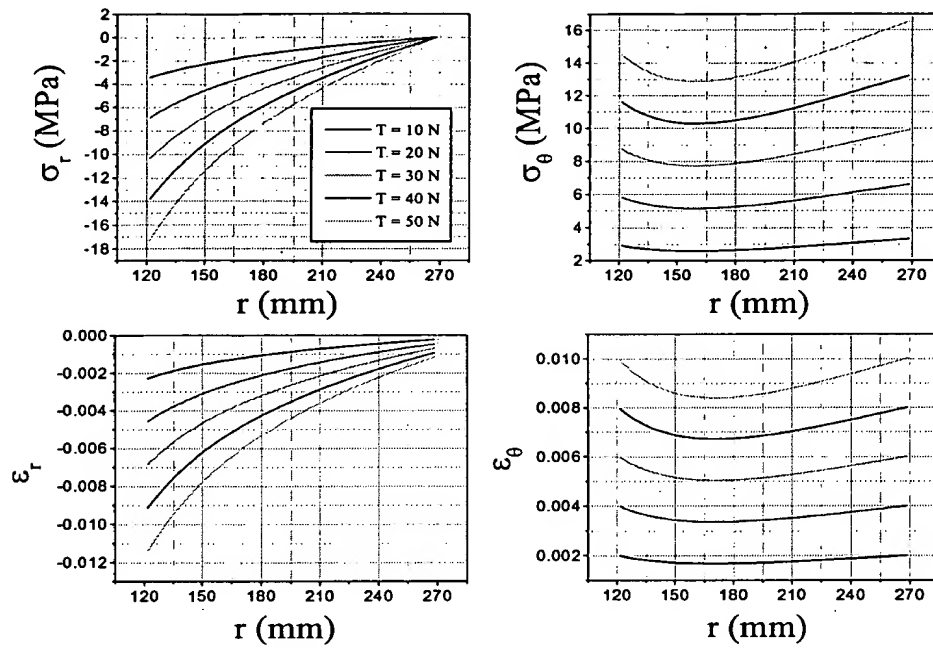


FIGURE 22

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

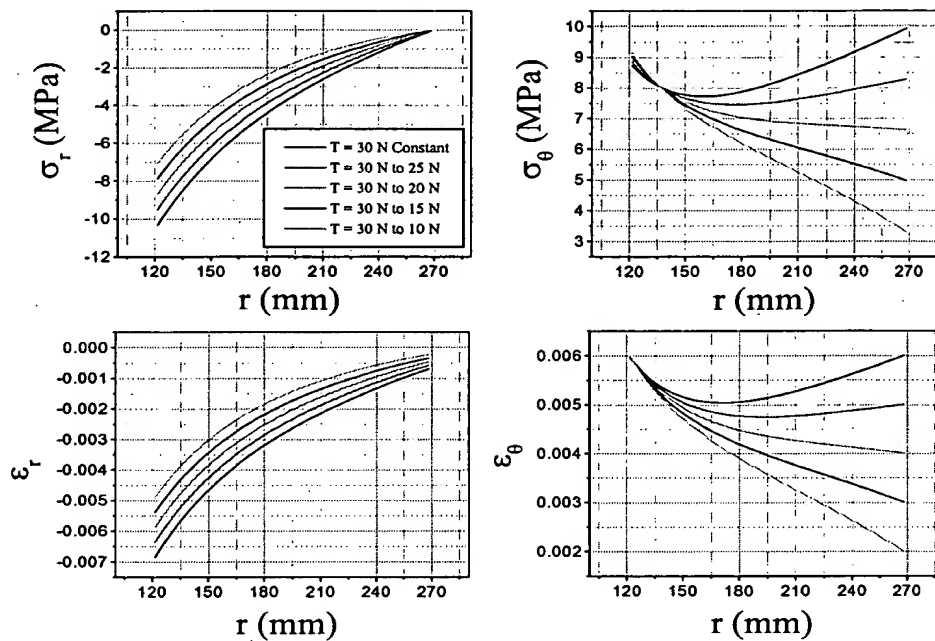


FIGURE 23

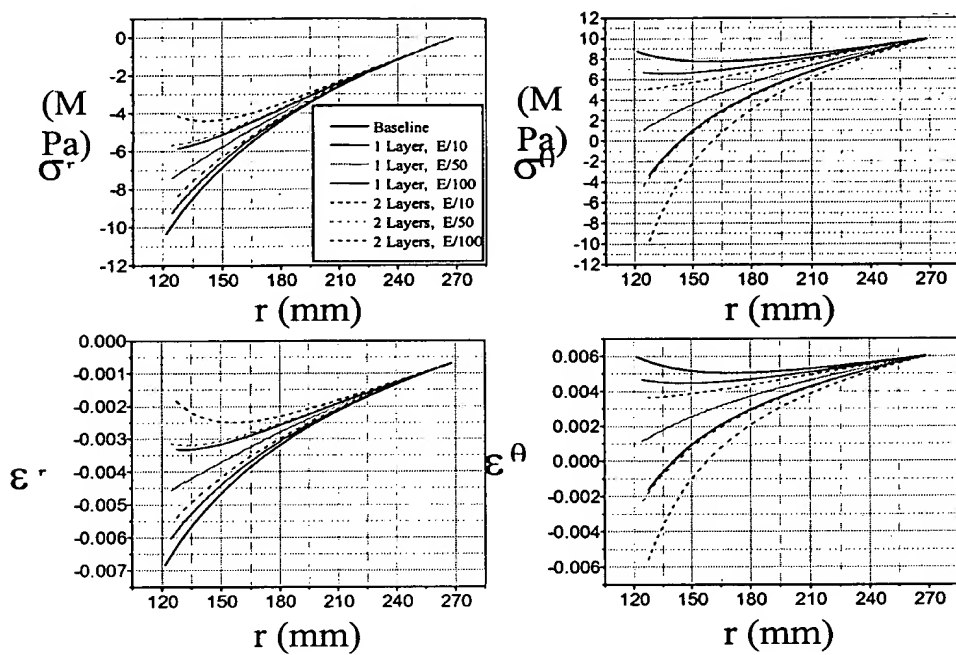


FIGURE 24

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

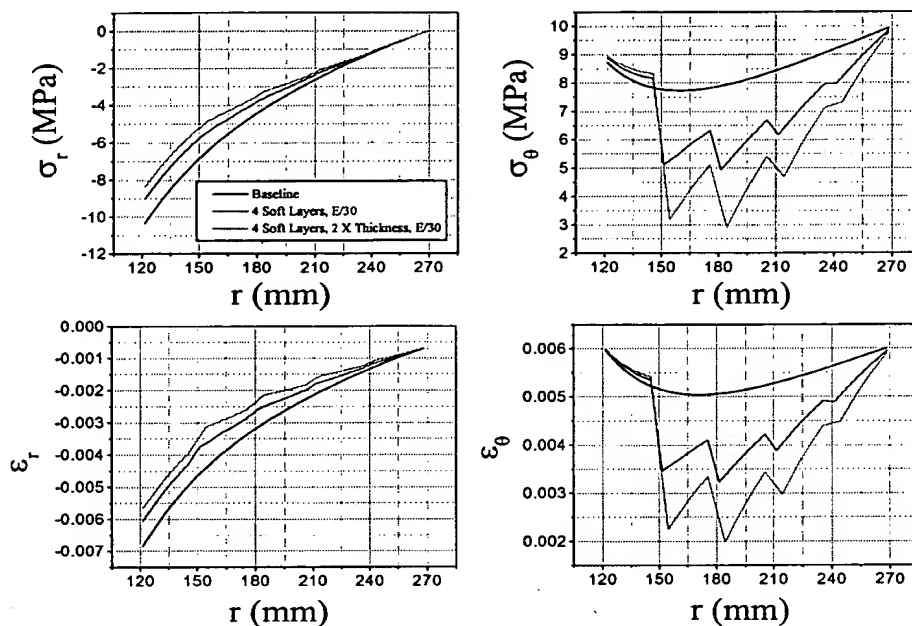


FIGURE 25A

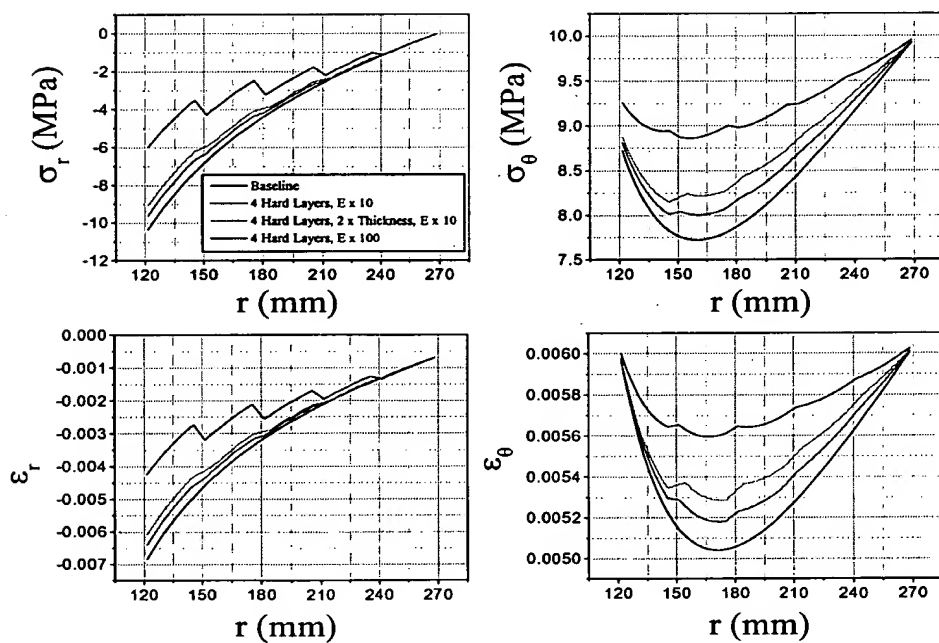


FIGURE 25B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

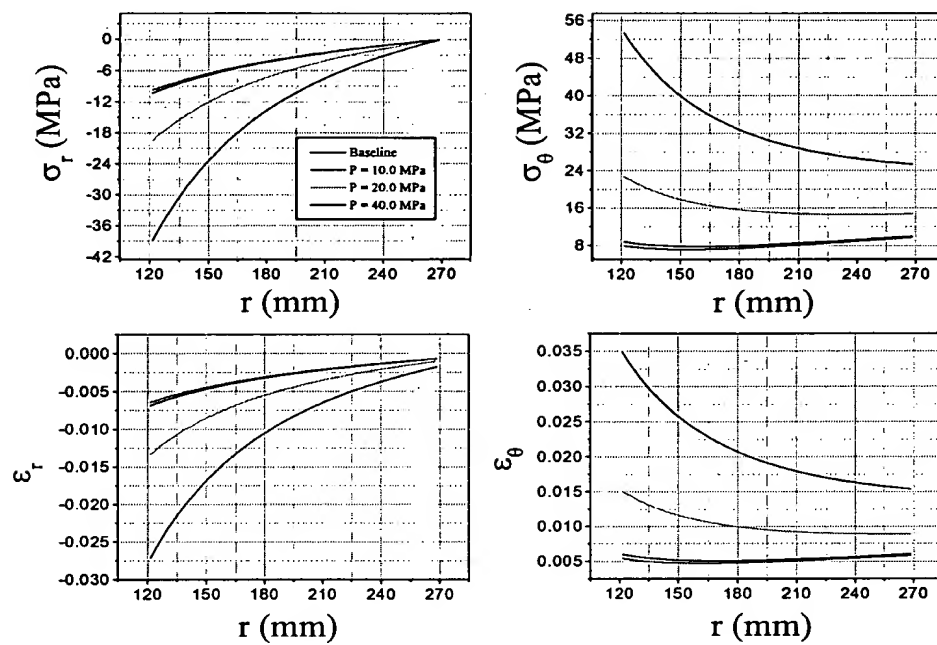


FIGURE 25C

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

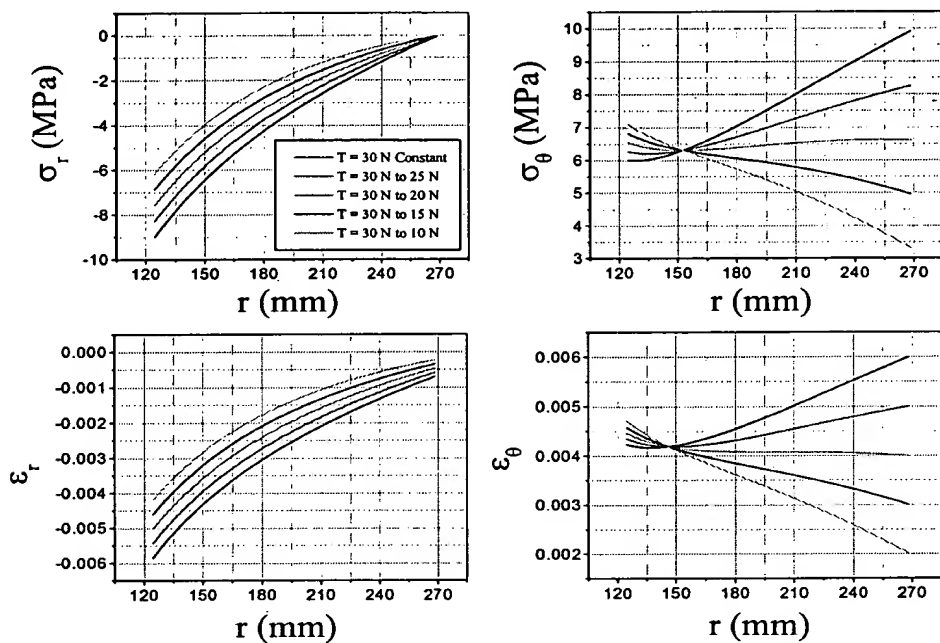


FIGURE 26A

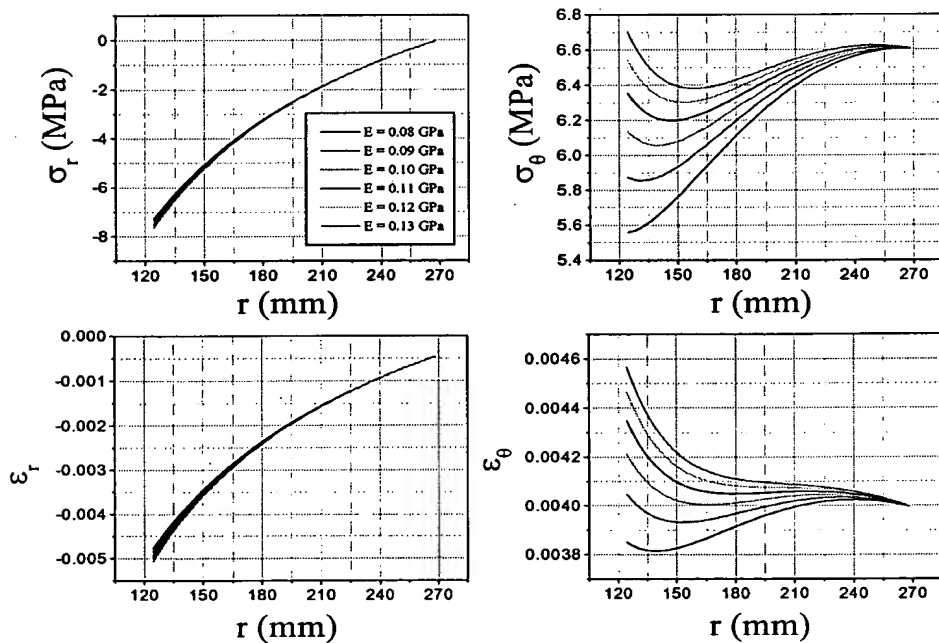


FIGURE 26B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

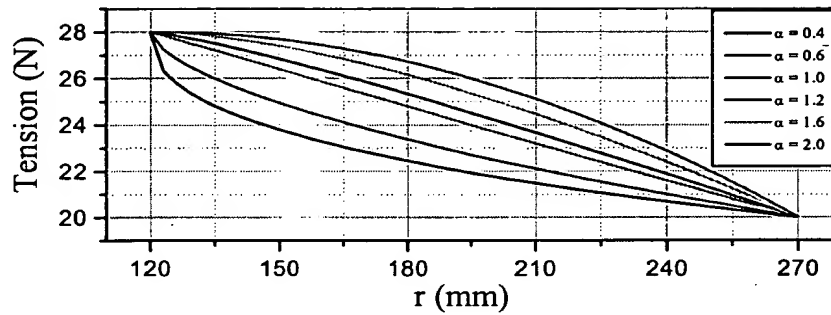


FIGURE 27A

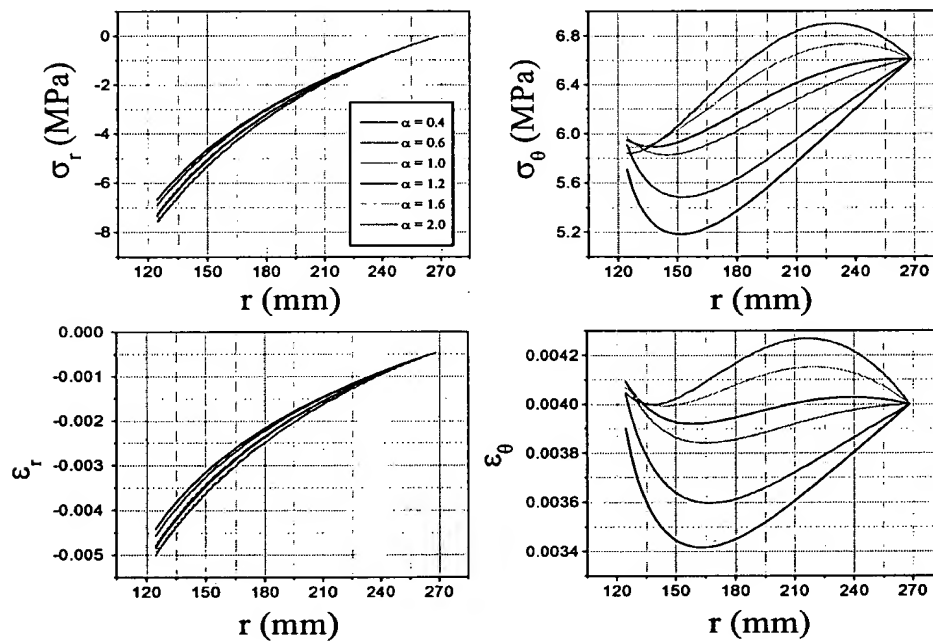


FIGURE 27B

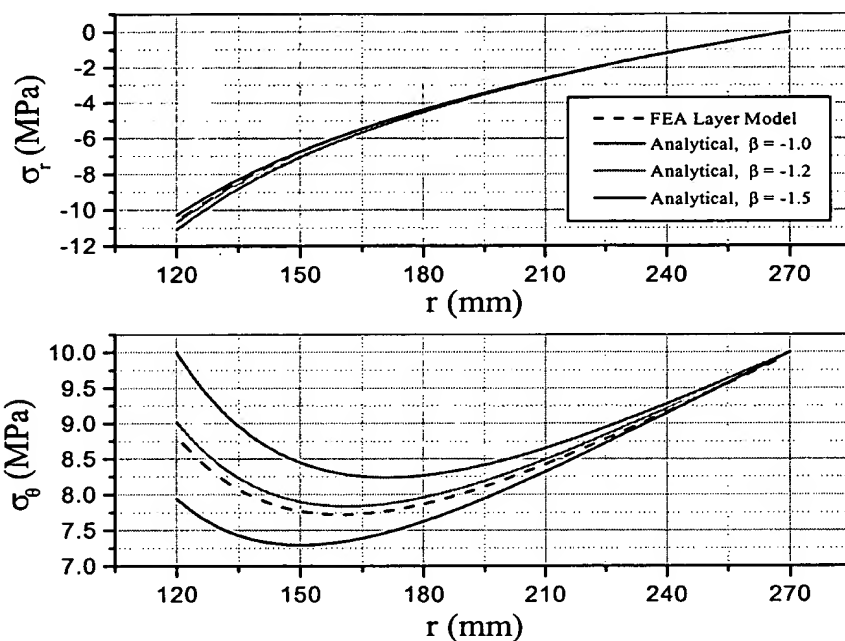


FIGURE 28

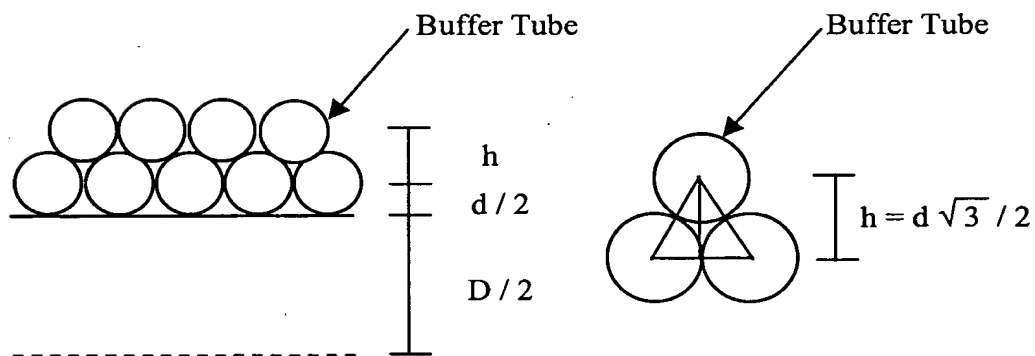


FIGURE 29

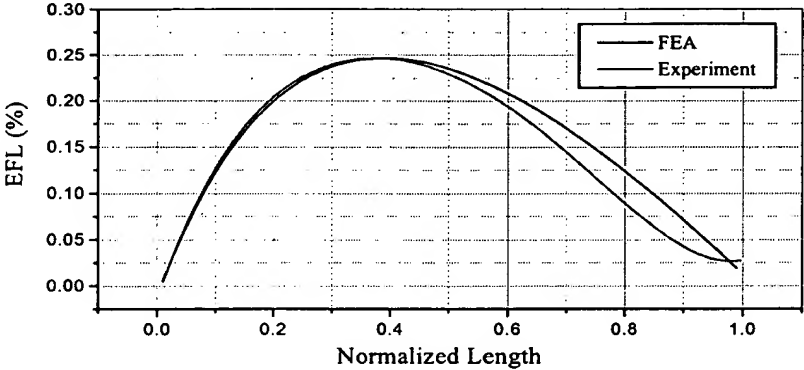


FIGURE 30

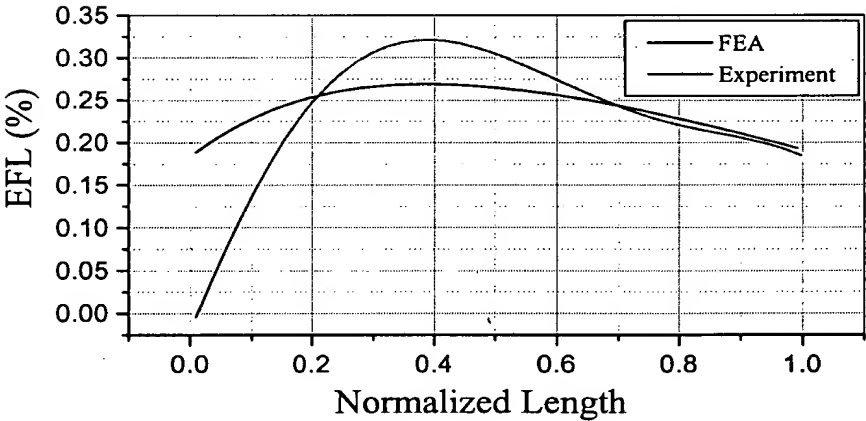


FIGURE 31

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Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

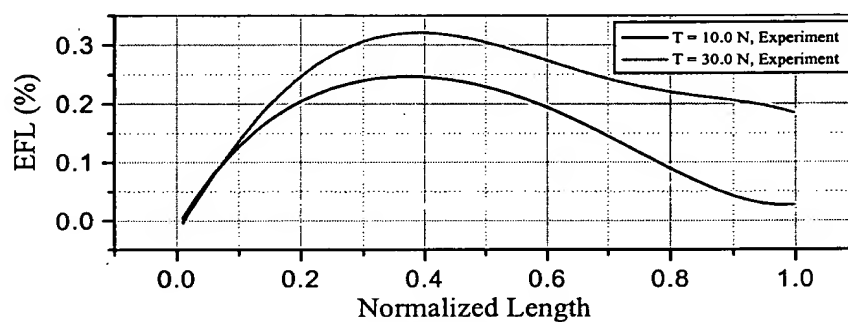
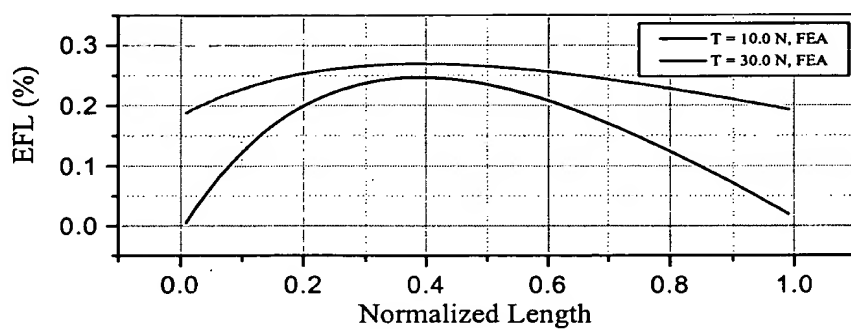


FIGURE 32A

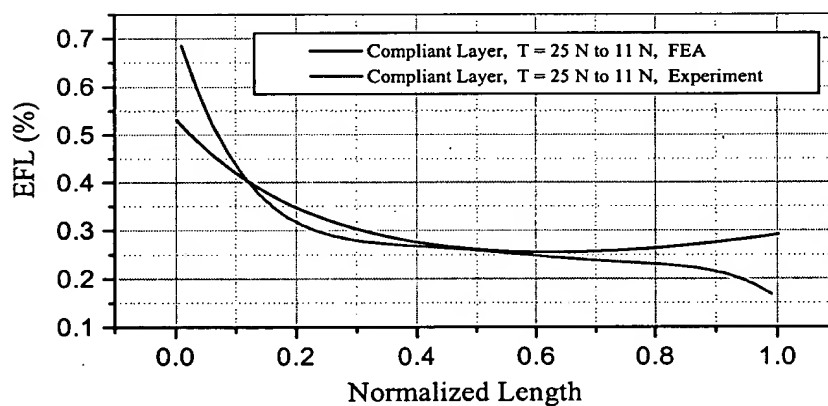


FIGURE 32B

U.S. Patent Application Figures

Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

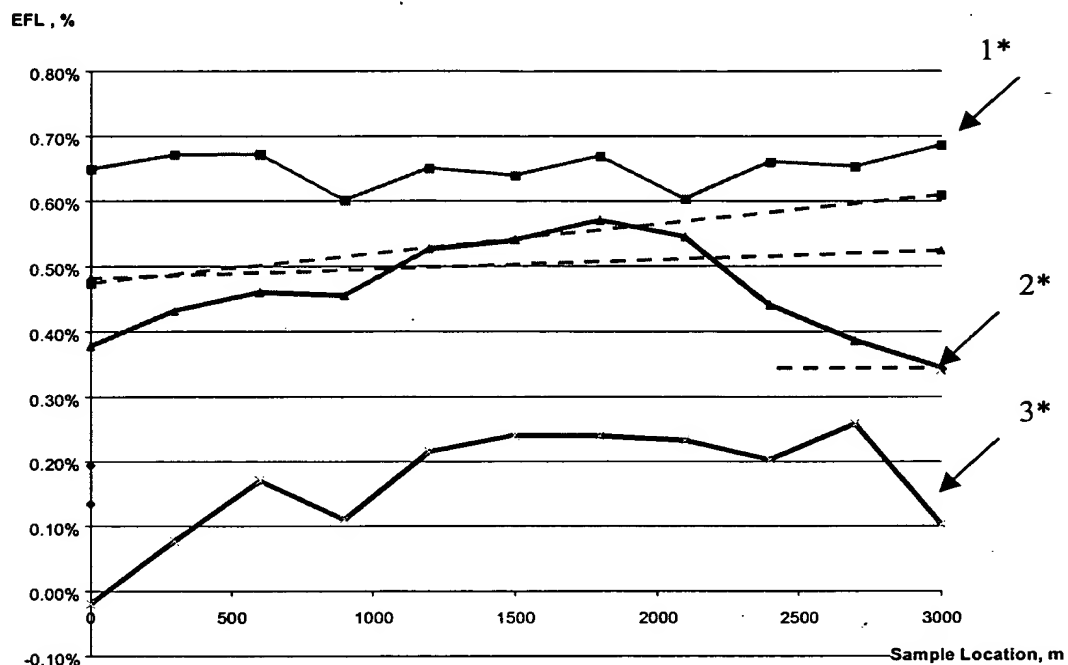


FIGURE 33

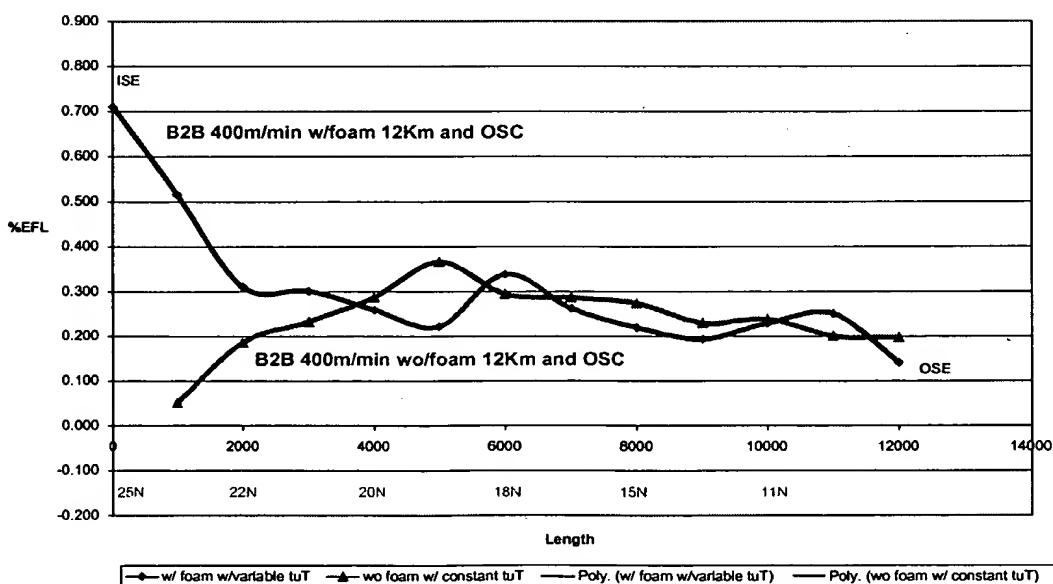


FIGURE 34

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Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

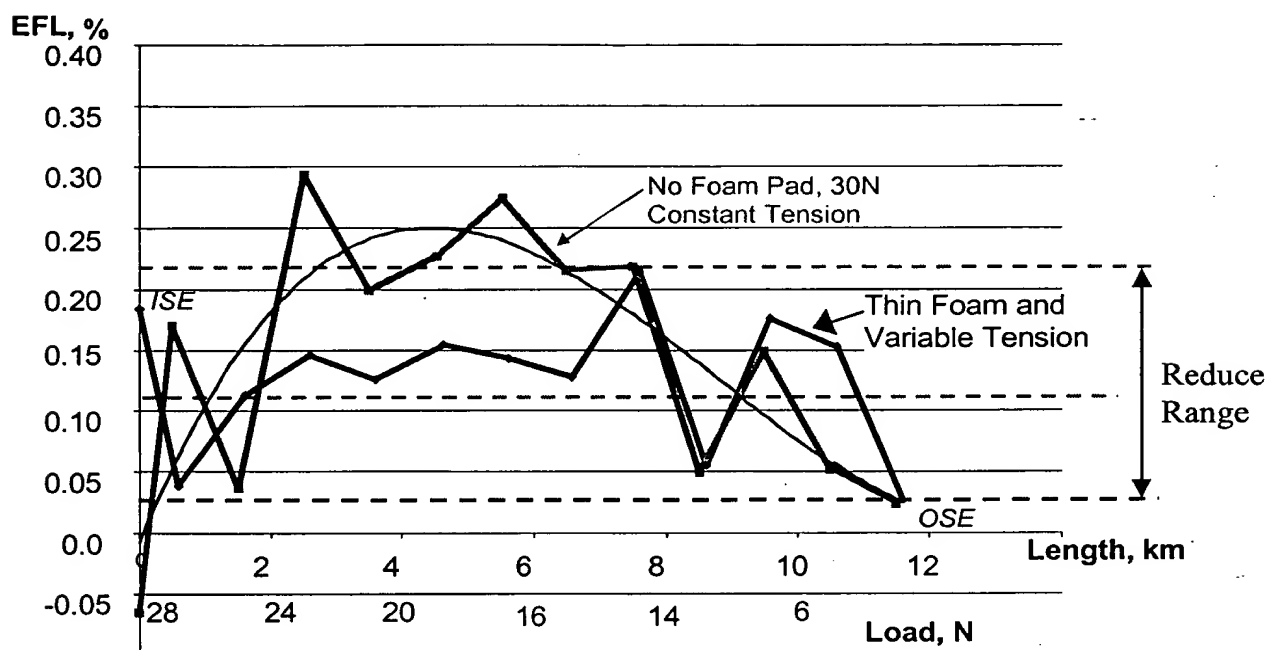


FIGURE 35

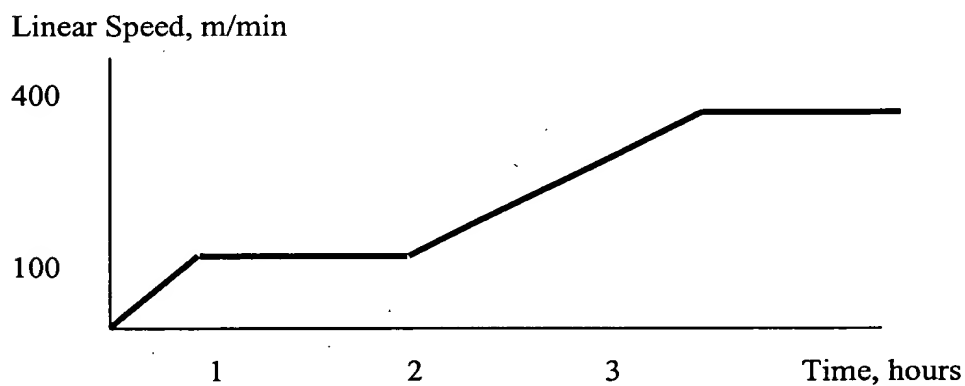


FIGURE 36

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Inventors: Nicholas V. Nechitailo, Dean Rattazzi, Matthew Soltis and Mike Rossi

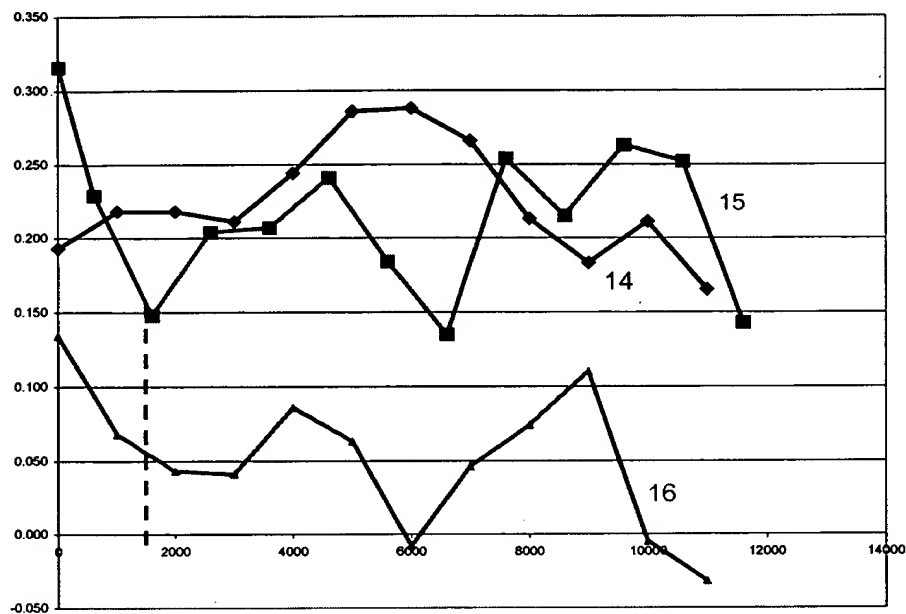


FIGURE 37

ROSSIMT27

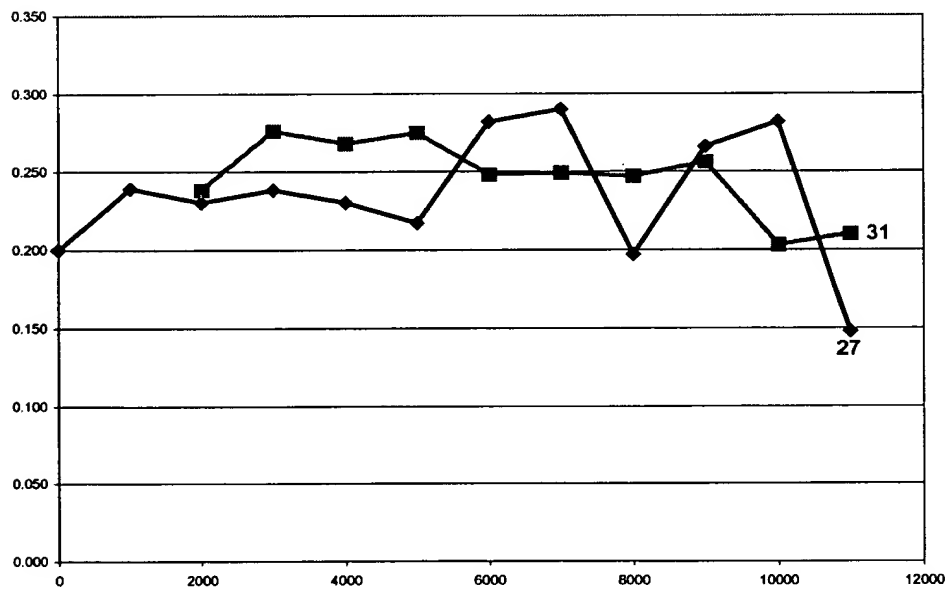


FIGURE 39

U.S. Patent Application Figures

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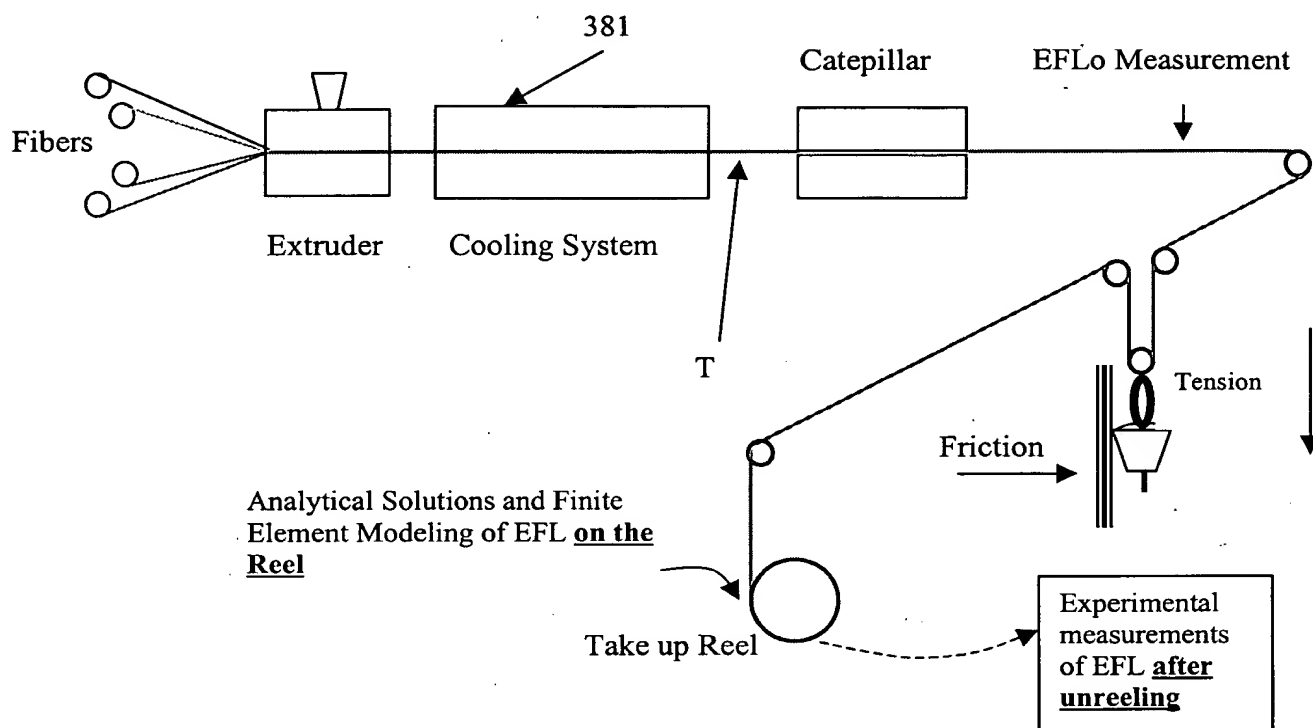


FIGURE 38

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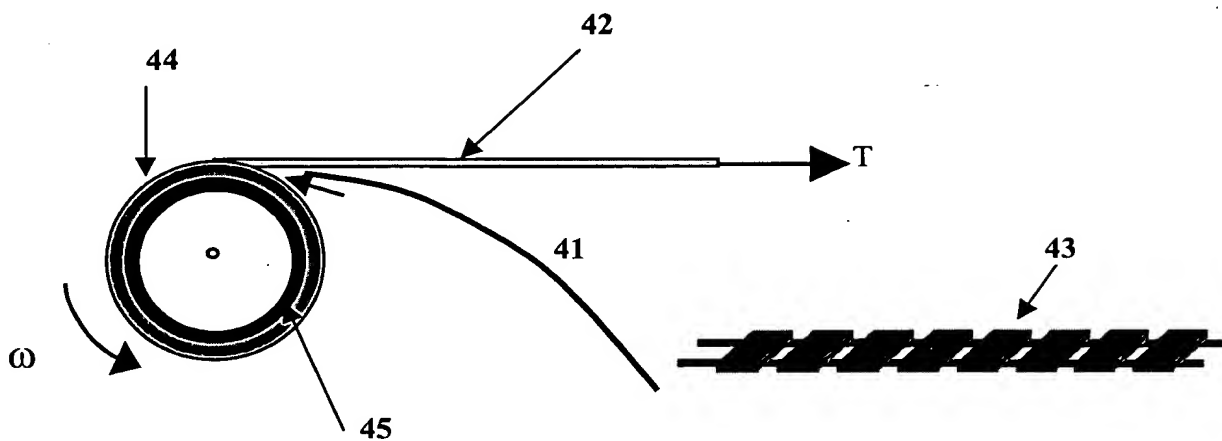


FIGURE 40

